

Modbus® Register Tables for PROVu™, ProtEX-MAX™, and Helios Modbus® Scanners



For PROVu™, ProtEX-MAX™, and Helios Series
Meters and Controllers Modbus® Register Tables,
see [LIMModbus2](#)

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⚠ IMPORTANT

- For use with the following models only:

PROVu™	ProtEX-MAX™	Helios
PD6080, PD6081, PD6088, and PD6089	PD8-6080 and PD8-6081	PD2-6080 and PD2-6081

- See [LIMModbus2](#) for ProVu™, ProtEX-MAX™, and Helios Meters and Controllers Modbus® Register Tables.

⚠ WARNINGS

- As is typical with most instruments, the addition of serial communications carries an inherent risk; it allows a remote operator to change the operation and/or characteristics of the device being digitally communicated with. Inappropriate communication could have serious consequences in scanner or system operation.
- Ultimately, it is up to the system designer to provide for the safe operation of a process. But certainly, no single event should make the difference between a safe situation and a catastrophe. Please use the appropriate level of caution when implementing serial communication.

⚠ CAUTION

- If the Interlock Relay function is being used on a ProVu™, ProtEX-MAX™, or Helios Modbus scanner, its proper operation can be affected by inappropriate digital communications. Please take the steps necessary to provide for reliable interlock protection.

Register Trademarks

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Introduction

Communicate with the ProVu™, ProtEX-MAX™, and Helios Series of Modbus scanners as listed on page 2, firmware version 1.000 & greater, using the Modbus® RTU Serial Communication Protocol. The user should be familiar with Modbus serial communication and the scanner. Refer to the scanner instruction manual for setup and wiring instructions.

Get a copy of Modbus Specifications and Resources at <http://www.modbus.org/>

Note: Although there are no specific 3x Registers, all 4x Registers are mirrored into 3x register space, and are therefore capable of being read by Modbus function 04 (Read Input Registers).

Register Overview

- 40051 – 40089: Manual control of relays, analog output, and digital outputs.
- 40132 – 40136: Serial communication settings.
- 40171 – 40180: Passwords 1-3.
- 40201 – 40220: Function keys & Digital I/O.
- 40301 – 40372: Relays; Set & Reset points, on & off delays, operating mode.
- 40401 – 40437: Analog output values and setup parameters.
- 41401 – 41945: Remote scaling for PV1 – PV16 and math channels C1 – C4.
- 47001 – 47032: PV1 – PV16 Display values.
- 47033 – 47096: PV1 – PV16 max/min values.
- 47097 – 47120: Math channels C1 – C4 values, math max/min values.
- 47129 – 47132: PV1 & PV2 cutoff value.
- 47137 – 47152: PV1 – PV16 linearization function (e.g. RHT: Round horizontal tank).
- 47153 – 47154: PV1 & PV2 number of linearization points.
- 47169 – 47264: Exponent values and Round horizontal tank parameters.
- 47265 – 47304: PVs & math channels decimal point.
- 47305 – 47336: PV list for Top & Bottom displays.
- 47381 – 47428: Enable PVs to be polled, PV1 – PV16 Slave IDs, Function code,
- 47429 – 47540: Register number, data type, byte order, etc.
- 47541 – 47560: Display format: decimal, feet-inch-16th, and feet-inch-8th.
- 47561 – 47566: Scanner mode: Master, Snooper, or Slave; poll time, response time, auto or manual scan, scan rate, and stop/go on alarm.
- 47567 – 47670: Math channels parameters.
- 47671 – 47678: Assign relays to multiple PVs.
- 47701 – 47940: PVs & math channels units & tags.
- 49901 – 49908: Product ID and Firmware Version.
- 49999: Load Factory Defaults



Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments																																																
Number	Address (Hex)																																																							
40001 – 40002	0 – 1 (0000 – 0001)	PV1 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	Represents the PV1 display value including the decimal point. Under Range = -99999, Over Range = 999999, and Open = -99999																																																
40003	2 (0002)	Alarm and Relay status	Read Only	1 = In Alarm 1 = relay energized	None	Word; Bits	03, 04	Read alarm status and energized/non-energized status of relays. Alm = Alarm. Rly = Relay. <table border="1" style="width:100%; text-align:center; font-size:small;"> <tr><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td></tr> <tr><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Rly</td><td>Rly</td><td>Rly</td><td>Rly</td><td>Rly</td><td>Rly</td><td>Rly</td><td>Rly</td></tr> <tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr> </table>	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Alm	Alm	Alm	Alm	Alm	Alm	Alm	Alm	Rly	Rly	Rly	Rly	Rly	Rly	Rly	Rly	8	7	6	5	4	3	2	1	8	7	6	5	4	3	2	1
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0																																									
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8	7	6	5	4	3	2	1	8	7	6	5	4	3	2	1																																									
40004	3 (0003)	Digital Inputs and Outputs status	Read Only	1 = Input selected 1 = Output active	None	Word; Bits	03, 04	Read the state of the digital inputs and outputs. <table border="1" style="width:100%; text-align:center; font-size:small;"> <tr><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td></tr> <tr><td>DI</td><td>DI</td><td>DI</td><td>DI</td><td>DI</td><td>DI</td><td>DI</td><td>DI</td><td>DO</td><td>DO</td><td>DO</td><td>DO</td><td>DO</td><td>DO</td><td>DO</td><td>DO</td></tr> <tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr> </table>	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	DI	DI	DI	DI	DI	DI	DI	DI	DO	DO	DO	DO	DO	DO	DO	DO	8	7	6	5	4	3	2	1	8	7	6	5	4	3	2	1
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40005 – 40006	4 – 5 (0004 – 0005)	Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	Represents the Maximum display value, including the decimal point, since last power up or Max Value reset.																																																
40007 – 40008	6 – 7 (0006 – 0007)	Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	Represents the Minimum display value, including the decimal point, since last power up or Min Value reset.																																																
40009 - 40020								Reserved																																																
40021	20 (0014)	PV1 Display value	Read Only	-99999 to 999999	User defined	Long Hi	03, 04	Represents the PV1 display value excluding the decimal point. Decimal point setting in 40102.																																																
40022	21 (0015)	PV1 Display value	Read Only		User defined	Long Lo	03, 04	Must be read with 40021.																																																
40023	22 (0016)	Alarm and Relay status	Read Only	1 = In Alarm 1 = relay energized	None	Word; Bits	03, 04	Mirror of 40003. Read alarm status and energized/non-energized status of relays. Alm = Alarm. Rly = Relay. <table border="1" style="width:100%; text-align:center; font-size:small;"> <tr><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td></tr> <tr><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Rly</td><td>Rly</td><td>Rly</td><td>Rly</td><td>Rly</td><td>Rly</td><td>Rly</td><td>Rly</td></tr> <tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr> </table>	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Alm	Alm	Alm	Alm	Alm	Alm	Alm	Alm	Rly	Rly	Rly	Rly	Rly	Rly	Rly	Rly	8	7	6	5	4	3	2	1	8	7	6	5	4	3	2	1
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8	7	6	5	4	3	2	1	8	7	6	5	4	3	2	1																																									
40024	23 (0017)	Digital Inputs and Outputs status	Read Only	1 = Input selected 1 = Output active	None	Word; Bits	03, 04	Mirror of 40004. Read the state of the digital inputs and outputs. <table border="1" style="width:100%; text-align:center; font-size:small;"> <tr><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td></tr> <tr><td>DI</td><td>DI</td><td>DI</td><td>DI</td><td>DI</td><td>DI</td><td>DI</td><td>DI</td><td>DO</td><td>DO</td><td>DO</td><td>DO</td><td>DO</td><td>DO</td><td>DO</td><td>DO</td></tr> <tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr> </table>	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	DI	DI	DI	DI	DI	DI	DI	DI	DO	DO	DO	DO	DO	DO	DO	DO	8	7	6	5	4	3	2	1	8	7	6	5	4	3	2	1
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40025	24 (0018)	Maximum Display value	Read Only	-99999 to 999999	User defined	Long Hi	03, 04	Represents the Maximum display value, excluding the decimal point, since last power up or Max Value reset.																																																
40026	25 (0019)	Maximum Display value	Read Only		User defined	Long Lo	03, 04	Must be read with 40025.																																																
40027	26 (001A)	Minimum Display value	Read Only	-99999 to 999999	User defined	Long Hi	03, 04	Represents the Maximum display value, excluding the decimal point, since last power up or Max Value reset.																																																
40028	27 (001B)	Minimum Display value	Read Only		User defined	Long Lo	03, 04	Must be read with 40027.																																																

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments																																																
Number	Address (Hex)																																																							
40029 - 40040								Reserved																																																
40041	40 (0028)	Alarm Acknowledge	Write Only	Not applicable	None	Word; Bits	06, 16	Clear Relay <i>n</i> alarm condition. Set bit equal to 1 to acknowledge. Only has effect on relays programmed to allow manual acknowledging. Bits 0-7 mirror Bits 8-15, Alm = Alarm <table border="1" style="font-size: small; width: 100%; text-align: center;"> <tr> <td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td> </tr> <tr> <td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td><td>Alm</td> </tr> <tr> <td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td> </tr> </table>	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Alm	Alm	Alm	Alm	Alm	Alm	Alm	Alm	Alm	Alm	Alm	Alm	Alm	Alm	Alm	Alm	8	7	6	5	4	3	2	1	8	7	6	5	4	3	2	1
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8	7	6	5	4	3	2	1	8	7	6	5	4	3	2	1																																									
40042	41 (0029)	Reset Maximum Display value	Write Only	Not applicable	None	Bit	06, 16	Set bit to 1 to reset the Maximum Display value.																																																
40043	42 (002A)	Reset Minimum Display value	Write Only	Not applicable	None	Bit	06, 16	Set bit to 1 to reset the Minimum Display value.																																																
40044	43 (002B)	Reset Max/Min Display value	Write Only	Not applicable	None	Bit	06, 16	Set bit to 1 to reset the Maximum/ Minimum Display values.																																																
40051	50 (0032)	Control Mode	Read Write	Not applicable	None	Bit	03, 04, 06, 16	0 = auto, 1 = manual																																																
40052	51 (0033)	Manual Control Analog Output Setting	Read Write	0 to 23999	µA	Integer	03, 04, 06, 16	Represents the Manual Control Analog Output value. Note: Register 40051 must be set to 1 = manual mode for registers 40052-40069 to take effect.																																																
40053								Not used																																																
40054	53 (0035)	Manual Control Relay 1 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Relay 1 setting. 0 = off, 1 = on																																																
40055	54 (0036)	Manual Control Relay 2 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Relay 2 setting. 0 = off, 1 = on																																																
40056	55 (0037)	Manual Control Relay 3 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Relay 3 setting. 0 = off, 1 = on																																																
40057	56 (0038)	Manual Control Relay 4 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Relay 4 setting. 0 = off, 1 = on																																																
40058	57 (0039)	Manual Control Relay 5 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Relay 5 setting. 0 = off, 1 = on																																																
40059	58 (003A)	Manual Control Relay 6 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Relay 6 setting. 0 = off, 1 = on																																																
40060	59 (003B)	Manual Control Relay 7 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Relay 7 setting. 0 = off, 1 = on																																																
40061	60 (003C)	Manual Control Relay 8 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Relay 8 setting. 0 = off, 1 = on																																																

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
40062	61 (003D)	Manual Control DO 1 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Digital Output 1 setting. 0 = off, 1 = on
40063	62 (003E)	Manual Control DO 2 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Digital Output 2 setting. 0 = off, 1 = on
40064	63 (003F)	Manual Control DO 3 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Digital Output 3 setting. 0 = off, 1 = on
40065	64 (0040)	Manual Control DO 4 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Digital Output 4 setting. 0 = off, 1 = on
40066	65 (0041)	Manual Control DO 5 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Digital Output 5 setting. 0 = off, 1 = on
40067	66 (0042)	Manual Control DO 6 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Digital Output 6 setting. 0 = off, 1 = on
40068	67 (0043)	Manual Control DO 7 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Digital Output 7 setting. 0 = off, 1 = on
40069	68 (0044)	Manual Control DO 8 Setting	Read Write	Not applicable	None	Bit	03, 04, 06, 16	Represents the Manual Control Digital Output 8 setting. 0 = off, 1 = on
40070-40131								Reserved
40132	131 (0083)	Serial Address	Read Write	1 to 247	None	Integer	03, 04, 06, 16	Changes to this register are saved but don't take effect until next scanner reset (Modbus command or power-up). Writing out of range data results in an address of 247.
40133	132 (0084)	Serial Baud Rate	Read Write	0 to 6	None	Integer	03, 04, 06, 16	0 = 300, 1 = 600, 2 = 1200, 3 = 2400, 4 = 4800, 5 = 9600, & 6 = 19200. Changes to this register are saved but don't take effect until next scanner reset (Modbus command or power-up). Writing out of range data results in a baud rates not supported by the hardware.
40134	133 (0085)	Serial Transmit Delay	Read Write	0 to 4999	ms	Integer	03, 04, 06, 16	Transmit delay to minimize collisions on the RS-485 network.
40135	134 (0086)	Serial Parity	Read Write	0 to 3	None	Integer	03, 04, 06, 16	0 = None with 1 stop bit, 1 = None with 2 stop bits, 2 = Odd, 3 = Even. Changes to this register are saved but don't take effect until next scanner re-initialization (Writing 0xFF00 to 40299 or power-up). Writing out of range data results in a parity setting of Even.
40136	135 (0087)	Serial Byte-to-Byte Timeout	Read Write	0 to 254	1/100 of Seconds	Integer	03, 04, 06, 16	This is the timeout between bytes of a Modbus frame. Note that this value is in addition to the minimum value required for the present baud rate. Changes to this register are saved but don't take effect until next scanner reset (Modbus command or power-up). Writing out of range data results in a timeout of 2.44 seconds.
40137 – 40170								Reserved

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
40171 – 40172	170 – 171 (00AA-00AB)	Password 1	Read Write	000000 to 999999	None	Floating point	03, 04, 06, 16	See Note 4.
40173 – 40174	172 – 173 (00AC-00AD)	Password 2	Read Write	000000 to 999999	None	Floating point	03, 04, 06, 16	See Note 4.
40175 – 40176	174 – 175 (00AE-00AF)	Password 3	Read Write	000000 to 999999	None	Floating point	03, 04, 06, 16	See Note 4.
40177 – 40197								Reserved
40201	200 (00C8)	Programmable User F1 Setting	Read Write	0 to 70	User defined	Integer	03, 04, 06, 16	See Table 2.
40202	201 (00C9)	Programmable User F2 Setting	Read Write	0 to 70	User defined	Integer	03, 04, 06, 16	See Table 2.
40203	202 (00CA)	Programmable User F3 Setting	Read Write	0 to 70	User defined	Integer	03, 04, 06, 16	See Table 2.
40204	203 (00CB)	Programmable User F4 Setting	Read Write	0 to 70	User defined	Integer	03, 04, 06, 16	See Table 2.
40205	204 (00CC)	Programmable User Digital Input 1 Setting	Read Write	0 to 70	User defined	Integer	03, 04, 06, 16	See Table 2.
40206	205 (00CD)	Programmable User Digital Input 2 Setting	Read Write	0 to 70	User defined	Integer	03, 04, 06, 16	See Table 2.
40207	206 (00CE)	Programmable User Digital Input 3 Setting	Read Write	0 to 70	User defined	Integer	03, 04, 06, 16	See Table 2.
40208	207 (00CF)	Programmable User Digital Input 4 Setting	Read Write	0 to 70	User defined	Integer	03, 04, 06, 16	See Table 2.
40209	208 (00D0)	Programmable User Digital Input 5 Setting	Read Write	0 to 70	User defined	Integer	03, 04, 06, 16	See Table 2.
40210	209 (00D1)	Programmable User Digital Input 6 Setting	Read Write	0 to 70	User defined	Integer	03, 04, 06, 16	See Table 2.
40211	210 (00D2)	Programmable User Digital Input 7 Setting	Read Write	0 to 70	User defined	Integer	03, 04, 06, 16	See Table 2.
40212	211 (00D3)	Programmable User Digital Input 8 Setting	Read Write	0 to 70	User defined	Integer	03, 04, 06, 16	See Table 2.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
40213	212 (00D4)	Programmable User Digital Output 1 Setting	Read Write	0 to 18	User defined	Integer	03, 04, 06, 16	See Table 2.
40214	213 (00D5)	Programmable User Digital Output 2 Setting	Read Write	0 to 18	User defined	Integer	03, 04, 06, 16	See Table 2.
40215	214 (00D6)	Programmable User Digital Output 3 Setting	Read Write	0 to 18	User defined	Integer	03, 04, 06, 16	See Table 2.
40216	215 (00D7)	Programmable User Digital Output 4 Setting	Read Write	0 to 18	User defined	Integer	03, 04, 06, 16	See Table 2.
40217	216 (00D8)	Programmable User Digital Output 5 Setting	Read Write	0 to 18	User defined	Integer	03, 04, 06, 16	See Table 2.
40218	217 (00D9)	Programmable User Digital Output 6 Setting	Read Write	0 to 18	User defined	Integer	03, 04, 06, 16	See Table 2.
40219	218 (00DA)	Programmable User Digital Output 7 Setting	Read Write	0 to 18	User defined	Integer	03, 04, 06, 16	See Table 2.
40220	219 (00DB)	Programmable User Digital Output 8 Setting	Read Write	0 to 18	User defined	Integer	03, 04, 06, 16	See Table 2.
40221	220 (00DC)	Rounding	Read Write	Not applicable	None	Integer	03, 04, 06, 16	Display Rounding Acceptable Index values are: 0=1, 1=2, 2=5, 3=10, 4=20, 5=50, and 6=100
40222-40228								Reserved
40229-40300								Not used
40301	300 (012C)	Relay 1 Mode	Read Write	Not applicable	None	Word; bits	03, 04, 06, 16	See Table 3 for operating modes and bit assignments.
40302 – 40303	301 – 302 (012D – 012E)	Relay 1 Set Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40304 – 40305	303 – 304 (012F – 0130)	Relay 1 Reset Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40306	305 (0131)	Relay 1 On Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	
40307	306 (0132)	Relay 1 Off Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
40308 – 40309	307 – 308 (0133 – 0134)	Relay 1 Sample Time	Read Write	0 to 59999	1/10 of Seconds	Floating point	03, 04, 06, 16	
40310	309 (0135)	Relay 2 Mode	Read Write	Not applicable	None	Word; bits	03, 04, 06, 16	See Table 3 for operating modes and bit assignments.
40311 – 40312	310 – 311 (0136 – 0137)	Relay 2 Set Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40313 – 40314	312 – 313 (0138 – 0139)	Relay 2 Reset Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40315	314 (013A)	Relay 2 On Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	
40316	315 (013B)	Relay 2 Off Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	
40317 – 40318	316 – 317 (013C – 013D)	Relay 2 Sample Time	Read Write	0 to 59999	1/10 of Seconds	Floating point	03, 04, 06, 16	
40319	318 (013E)	Relay 3 Mode	Read Write	Not applicable	None	Word; bits	03, 04, 06, 16	See Table 3 for operating modes and bit assignments.
40320 – 40321	319 – 320 (013F – 0140)	Relay 3 Set Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40322 – 40323	321 – 322 (0141 – 0142)	Relay 3 Reset Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40324	323 (0143)	Relay 3 On Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	
40325	324 (0144)	Relay 3 Off Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	
40326 – 40327	325 – 326 (0145 – 0146)	Relay 3 Sample Time	Read Write	0 to 59999	1/10 of Seconds	Floating point	03, 04, 06, 16	
40328	327 (0147)	Relay 4 Mode	Read Write	Not applicable	None	Word; bits	03, 04, 06, 16	See Table 3 for operating modes and bit assignments.
40329 – 40330	328 – 329 (0148 – 0149)	Relay 4 Set Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40331 – 40332	330 – 331 (014A – 014B)	Relay 4 Reset Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40333	332 (014C)	Relay 4 On Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	
40334	333 (014D)	Relay 4 Off Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	
40335 – 40336	334 – 335 (014E – 014F)	Relay 4 Sample Time	Read Write	0 to 59999	1/10 of Seconds	Floating point	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
40337	336 (0150)	Relay 5 Mode	Read Write	Not applicable	None	Word; bits	03, 04, 06, 16	See Table 3 for operating modes and bit assignments.
40338 – 40339	337 – 338 (0151 – 0152)	Relay 5 Set Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40340 – 40341	339 – 340 (0153 – 0154)	Relay 5 Reset Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40342	341 (0155)	Relay 5 On Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	
40343	342 (0156)	Relay 5 Off Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	
40344 – 40345	343 – 344 (0157 – 0158)	Relay 5 Sample Time	Read Write	0 to 59999	1/10 of Seconds	Floating point	03, 04, 06, 16	
40346	345 (0159)	Relay 6 Mode	Read Write	Not applicable	None	Word; bits	03, 04, 06, 16	See Table 3 for operating modes and bit assignments.
40347 – 40348	346 – 347 (015A – 015B)	Relay 6 Set Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40349 – 40350	348 – 349 (015C – 015D)	Relay 6 Reset Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40351	350 (015E)	Relay 6 On Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	
40352	351 (015F)	Relay 6 Off Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	
40353 – 40354	352 – 353 (0160 – 0161)	Relay 6 Sample Time	Read Write	0 to 59999	1/10 of Seconds	Floating point	03, 04, 06, 16	
40355	354 (0162)	Relay 7 Mode	Read Write	Not applicable	None	Word; bits	03, 04, 06, 16	See Table 3 for operating modes and bit assignments.
40356 – 40357	355 – 356 (0163 – 0164)	Relay 7 Set Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40358 – 40359	357 – 358 (0165 – 0166)	Relay 7 Reset Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40360	359 (0167)	Relay 7 On Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	
40361	360 (0168)	Relay 7 Off Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	
40362 – 40363	361 – 362 (0169 – 016A)	Relay 7 Sample Time	Read Write	0 to 59999	1/10 of Seconds	Floating point	03, 04, 06, 16	
40364	363 (016B)	Relay 8 Mode	Read Write	Not applicable	None	Word; bits	03, 04, 06, 16	See Table 3 for operating modes and bit assignments.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
40365 – 40366	364 – 365 (016C – 016D)	Relay 8 Set Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40367 – 40368	366 – 367 (016E – 016F)	Relay 8 Reset Point	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40369	368 (0170)	Relay 8 On Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	
40370	369 (0171)	Relay 8 Off Delay	Read Write	0 to 1999	1/10 of Seconds	Integer	03, 04, 06, 16	
40371 – 40372	370 – 371 (0172 – 0173)	Relay 8 Sample Time	Read Write	0 to 59999	1/10 of Seconds	Floating point	03, 04, 06, 16	
40373 – 40386								Reserved
40387 – 40400								Not used
40401	400 (0190)	Analog Output Channel 1 Value	Read Only	0 to 23999	µA	Integer	03, 04	
40402	401 (0191)	Analog Output Channel 1 Source	Read Write	0 to 21	None	Integer	03, 04, 06, 16	See Table 4 for selection of the 4-20mA output source. This is analog channel "AOut_1" when multiple outputs are available
40403	402 (0192)	Analog Output Overrange value	Read Write	0 to 23999	µA	Integer	03, 04, 06, 16	
40404	403 (0193)	Analog Output Underrange value	Read Write	0 to 23999	µA	Integer	03, 04, 06, 16	
40405	404 (0194)	Analog Output Channel 1 Comm. Break value	Read Write	0 to 23999 or 32000	µA	Integer	03, 04, 06, 16	This is analog channel "AOut_1" when multiple outputs are available. Write 32000 to ignore Comm. break
40406	405 (0195)	Analog Output Maximum value allowed	Read Write	0 to 23999	µA	Integer	03, 04, 06, 16	
40407	406 (0196)	Analog Output Minimum value allowed	Read Write	0 to 23999	µA	Integer	03, 04, 06, 16	
40408 – 40409	407 – 408 (0197 – 0198)	Analog Output Channel 1 Display Value 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	This is analog channel "AOut_1" when multiple outputs are available Analog Output scaling is only saved to memory after receiving the Output 2 – register 40413.
40410 – 40411	409 – 410 (0199 – 019A)	Analog Output Channel 1 Display Value 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	DO NOT interleave channels when scaling AOut

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
40412	411 (019B)	Analog Output Channel 1 mA Out 1 value	Read Write	0 to 23999	µA	Integer	03, 04, 06, 16	
40413	412 (019C)	Analog Output Channel 1 mA Out 2 value	Read Write	0 to 23999	µA	Integer	03, 04, 06, 16	
40414 – 40421								Reserved
40422	421 (01A5)	Analog Output Channel 2 Source	Read Write	0 to 22	None	Integer	03, 04, 06, 16	See Table 4 for selection of the 4-20mA output source. This is analog channel "AOut_2" when multiple outputs are available
40423	422 (01A6)	Analog Output Channel 3 Source	Read Write	0 to 22	None	Integer	03, 04, 06, 16	See Table 4 for selection of the 4-20mA output source. This is analog channel "AOut_3" when multiple outputs are available
40424	423 (01A7)	Analog Output Channel 2 Comm. Break value	Read Write	0 to 23999 or 32000	µA	Integer	03, 04, 06, 16	This is analog channel "AOut_2" when multiple outputs are available Write 32000 to ignore Comm. break
40425	424 (01A8)	Analog Output Channel 3 Comm. Break value	Read Write	0 to 23999 or 32000	µA	Integer	03, 04, 06, 16	This is analog channel "AOut_3" when multiple outputs are available Write 32000 to ignore Comm. break
40426 – 40427	425 – 426 (01A9 – 01AA)	Analog Output Channel 2 Display Value 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	Channel 2 Analog Output scaling is only saved to memory after receiving the Output 2 – register 40431. DO NOT interleave channels when scaling AOut
40428 – 40429	427 – 428 (01AB – 01AC)	Analog Output Channel 2 Display Value 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40430	429 (01AD)	Analog Output Channel 2 mA Out 1	Read Write	0 to 23999	µA	Integer	03, 04, 06, 16	
40431	430 (01AE)	Analog Output Channel 2 mA Out 2	Read Write	0 to 23999	µA	Integer	03, 04, 06, 16	
40432 – 40433	431 – 432 (01AF – 01B0)	Analog Output Channel 3 Display Value 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	Channel 3 Analog Output scaling is only saved to memory after receiving the Output 2 – register 40437. DO NOT interleave channels when scaling AOut

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
40434 – 40435	433 – 434 (01B1 – 01B2)	Analog Output Channel 3 Display Value 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
40436	435 (01B3)	Analog Output Channel 3 mA Out 1	Read Write	0 to 23999	µA	Integer	03, 04, 06, 16	
40437	436 (01B4)	Analog Output Channel 3 mA Out 2	Read Write	0 to 23999	µA	Integer	03, 04, 06, 16	
40501 – 41329								Reserved
41401 – 41402	1400 - 1401 (578 - 579)	PV 1 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values for a given PV have been sent, write 0xFFXX to register 41945, where XX is the PV #
41403 – 41404	1402 - 1403 (57A - 57B)	PV 1 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41405 – 41406	1404 - 1405 (57C - 57D)	PV 1 Display 3	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41407 – 41408	1406 - 1407 (57E - 57F)	PV 1 Display 4	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41409 – 41410	1408 - 1409 (580 - 581)	PV 1 Display 5	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41411 – 41412	1410 - 1411 (582 - 583)	PV 1 Display 6	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41413 – 41414	1412 - 1413 (584 - 585)	PV 1 Display 7	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41415 – 41416	1414 - 1415 (586 - 587)	PV 1 Display 8	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41417 – 41418	1416 - 1417 (588 - 589)	PV 1 Display 9	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41419 – 41420	1418 - 1419 (58A - 58B)	PV 1 Display 10	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
41421 – 41422	1420 - 1421 (58C - 58D)	PV 1 Display 11	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41423 – 41424	1422 - 1423 (58E - 58F)	PV 1 Display 12	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41425 – 41426	1424 - 1425 (590 - 591)	PV 1 Display 13	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41427 – 41428	1426 - 1427 (592 - 593)	PV 1 Display 14	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41429 – 41430	1428 - 1429 (594 - 595)	PV 1 Display 15	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41431 – 41432	1430 - 1431 (596 - 597)	PV 1 Display 16	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41433 – 41434	1432 - 1433 (598 - 599)	PV 1 Display 17	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41435 – 41436	1434 - 1435 (59A - 59B)	PV 1 Display 18	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41437 – 41438	1436 - 1437 (59C - 59D)	PV 1 Display 19	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41439 – 41440	1438 - 1439 (59E - 59F)	PV 1 Display 20	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41441 – 41442	1440 - 1441 (5A0 - 5A1)	PV 1 Display 21	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41443 – 41444	1442 - 1443 (5A2 - 5A3)	PV 1 Display 22	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41445 – 41446	1444 - 1445 (5A4 - 5A5)	PV 1 Display 23	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41447 – 41448	1446 - 1447 (5A6 - 5A7)	PV 1 Display 24	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41449 – 41450	1448 - 1449 (5A8 - 5A9)	PV 1 Display 25	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
41451 – 41452	1450 - 1451 (5AA - 5AB)	PV 1 Display 26	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41453 – 41454	1452 - 1453 (5AC - 5AD)	PV 1 Display 27	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41455 – 41456	1454 - 1455 (5AE - 5AF)	PV 1 Display 28	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41457 – 41458	1456 - 1457 (5B0 - 5B1)	PV 1 Display 29	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41459 – 41460	1458 - 1459 (5B2 - 5B3)	PV 1 Display 30	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41461 – 41462	1460 - 1461 (5B4 - 5B5)	PV 1 Display 31	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41463 – 41464	1462 - 1463 (5B6 - 5B7)	PV 1 Display 32	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41465 – 41466	1464 - 1465 (5B8 - 5B9)	PV 1 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41467 – 41468	1466 - 1467 (5BA - 5BB)	PV 1 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41469 – 41470	1468 - 1469 (5BC - 5BD)	PV 1 Input 3	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41471 – 41472	1470 - 1471 (5BE - 5BF)	PV 1 Input 4	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41473 – 41474	1472 - 1473 (5C0 - 5C1)	PV 1 Input 5	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41475 – 41476	1474 - 1475 (5C2 - 5C3)	PV 1 Input 6	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41477 – 41478	1476 - 1477 (5C4 - 5C5)	PV 1 Input 7	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41479 – 41480	1478 - 1479 (5C6 - 5C7)	PV 1 Input 8	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
41481 – 41482	1480 - 1481 (5C8 - 5C9)	PV 1 Input 9	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41483 – 41484	1482 - 1483 (5CA - 5CB)	PV 1 Input 10	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41485 – 41486	1484 - 1485 (5CC - 5CD)	PV 1 Input 11	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41487 – 41488	1486 - 1487 (5CE - 5CF)	PV 1 Input 12	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41489 – 41490	1488 - 1489 (5D0 - 5D1)	PV 1 Input 13	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41491 – 41492	1490 - 1491 (5D2 - 5D3)	PV 1 Input 14	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41493 – 41494	1492 - 1493 (5D4 - 5D5)	PV 1 Input 15	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41495 – 41496	1494 - 1495 (5D6 - 5D7)	PV 1 Input 16	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41497 – 41498	1496 - 1497 (5D8 - 5D9)	PV 1 Input 17	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41499 – 41500	1498 - 1499 (5DA - 5DB)	PV 1 Input 18	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41501 – 41502	1500 - 1501 (5DC - 5DD)	PV 1 Input 19	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41503 – 41504	1502 - 1503 (5DE - 5DF)	PV 1 Input 20	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41505 – 41506	1504 - 1505 (5E0 - 5E1)	PV 1 Input 21	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41507 – 41508	1506 - 1507 (5E2 - 5E3)	PV 1 Input 22	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41509 – 41510	1508 - 1509 (5E4 - 5E5)	PV 1 Input 23	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
41511 – 41512	1510 - 1511 (5E6 - 5E7)	PV 1 Input 24	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41513 – 41514	1512 - 1513 (5E8 - 5E9)	PV 1 Input 25	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41515 – 41516	1514 - 1515 (5EA - 5EB)	PV 1 Input 26	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41517 – 41518	1516 - 1517 (5EC - 5ED)	PV 1 Input 27	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41519 – 41520	1518 - 1519 (5EE - 5EF)	PV 1 Input 28	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41521 – 41522	1520 - 1521 (5F0 - 5F1)	PV 1 Input 29	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41523 – 41524	1522 - 1523 (5F2 - 5F3)	PV 1 Input 30	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41525 – 41526	1524 - 1525 (5F4 - 5F5)	PV 1 Input 31	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41527 – 41528	1526 - 1527 (5F6 - 5F7)	PV 1 Input 32	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41601 – 41602	1600 - 1601 (640 - 641)	PV 2 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41603 – 41604	1602 - 1603 (642 - 643)	PV 2 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41605 – 41606	1604 - 1605 (644 - 645)	PV 2 Display 3	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41607 – 41608	1606 - 1607 (646 - 647)	PV 2 Display 4	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41609 – 41610	1608 - 1609 (648 - 649)	PV 2 Display 5	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
41611 – 41612	1610 - 1611 (64A - 64B)	PV 2 Display 6	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41613 – 41614	1612 - 1613 (64C - 64D)	PV 2 Display 7	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41615 – 41616	1614 - 1615 (64E - 64F)	PV 2 Display 8	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41617 – 41618	1616 - 1617 (650 - 651)	PV 2 Display 9	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41619 – 41620	1618 - 1619 (652 - 653)	PV 2 Display 10	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41621 – 41622	1620 - 1621 (654 - 655)	PV 2 Display 11	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41623 – 41624	1622 - 1623 (656 - 657)	PV 2 Display 12	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41625 – 41626	1624 - 1625 (658 - 659)	PV 2 Display 13	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41627 – 41628	1626 - 1627 (65A - 65B)	PV 2 Display 14	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41629 – 41630	1628 - 1629 (65C - 65D)	PV 2 Display 15	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41631 – 41632	1630 - 1631 (65E - 65F)	PV 2 Display 16	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41633 – 41634	1632 - 1633 (660 - 661)	PV 2 Display 17	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41635 – 41636	1634 - 1635 (662 - 663)	PV 2 Display 18	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41637 – 41638	1636 - 1637 (664 - 665)	PV 2 Display 19	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41639 – 41640	1638 - 1639 (666 - 667)	PV 2 Display 20	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
41641 – 41642	1640 - 1641 (668 - 669)	PV 2 Display 21	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41643 – 41644	1642 - 1643 (66A - 66B)	PV 2 Display 22	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41645 – 41646	1644 - 1645 (66C - 66D)	PV 2 Display 23	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41647 – 41648	1646 - 1647 (66E - 66F)	PV 2 Display 24	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41649 – 41650	1648 - 1649 (670 - 671)	PV 2 Display 25	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41651 – 41652	1650 - 1651 (672 - 673)	PV 2 Display 26	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41653 – 41654	1652 - 1653 (674 - 675)	PV 2 Display 27	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41655 – 41656	1654 - 1655 (676 - 677)	PV 2 Display 28	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41657 – 41658	1656 - 1657 (678 - 679)	PV 2 Display 29	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41659 – 41660	1658 - 1659 (67A - 67B)	PV 2 Display 30	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41661 – 41662	1660 - 1661 (67C - 67D)	PV 2 Display 31	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41663 – 41664	1662 - 1663 (67E - 67F)	PV 2 Display 32	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41665 – 41666	1664 - 1665 (680 - 681)	PV 2 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41667 – 41668	1666 - 1667 (682 - 683)	PV 2 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41669 – 41670	1668 - 1669 (684 - 685)	PV 2 Input 3	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
41671 – 41672	1670 - 1671 (686 - 687)	PV 2 Input 4	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41673 – 41674	1672 - 1673 (688 - 689)	PV 2 Input 5	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41675 – 41676	1674 - 1675 (68A - 68B)	PV 2 Input 6	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41677 – 41678	1676 - 1677 (68C - 68D)	PV 2 Input 7	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41679 – 41680	1678 - 1679 (68E - 68F)	PV 2 Input 8	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41681 – 41682	1680 - 1681 (690 - 691)	PV 2 Input 9	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41683 – 41684	1682 - 1683 (692 - 693)	PV 2 Input 10	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41685 – 41686	1684 - 1685 (694 - 695)	PV 2 Input 11	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41687 – 41688	1686 - 1687 (696 - 697)	PV 2 Input 12	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41689 – 41690	1688 - 1689 (698 - 699)	PV 2 Input 13	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41691 – 41692	1690 - 1691 (69A - 69B)	PV 2 Input 14	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41693 – 41694	1692 - 1693 (69C - 69D)	PV 2 Input 15	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41695 – 41696	1694 - 1695 (69E - 69F)	PV 2 Input 16	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41697 – 41698	1696 - 1697 (6A0 - 6A1)	PV 2 Input 17	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41699 – 41700	1698 - 1699 (6A2 - 6A3)	PV 2 Input 18	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
41701 – 41702	1700 - 1701 (6A4 - 6A5)	PV 2 Input 19	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41703 – 41704	1702 - 1703 (6A6 - 6A7)	PV 2 Input 20	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41705 – 41706	1704 - 1705 (6A8 - 6A9)	PV 2 Input 21	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41707 – 41708	1706 - 1707 (6AA - 6AB)	PV 2 Input 22	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41709 – 41710	1708 - 1709 (6AC - 6AD)	PV 2 Input 23	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41711 – 41712	1710 - 1711 (6AE - 6AF)	PV 2 Input 24	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41713 – 41714	1712 - 1713 (6B0 - 6B1)	PV 2 Input 25	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41715 – 41716	1714 - 1715 (6B2 - 6B3)	PV 2 Input 26	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41717 – 41718	1716 - 1717 (6B4 - 6B5)	PV 2 Input 27	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41719 – 41720	1718 - 1719 (6B6 - 6B7)	PV 2 Input 28	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41721 – 41722	1720 - 1721 (6B8 - 6B9)	PV 2 Input 29	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41723 – 41724	1722 - 1723 (6BA - 6BB)	PV 2 Input 30	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41725 – 41726	1724 - 1725 (6BC - 6BD)	PV 2 Input 31	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41727 – 41728	1726 - 1727 (6BE - 6BF)	PV 2 Input 32	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
41801 – 41802	1800 - 1801 (708 - 709)	PV3 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41803 – 41804	1802 - 1803 (70A - 70B)	PV3 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41805 – 41806	1804 - 1805 (70C - 70D)	PV4 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41807 – 41808	1806 - 1807 (70E - 70F)	PV4 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41809 – 41810	1808 - 1809 (710 - 711)	PV5 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41811 – 41812	1810 - 1811 (712 - 713)	PV5 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41813 – 41814	1812 - 1813 (714 - 715)	PV6 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41815 – 41816	1814 - 1815 (716 - 717)	PV6 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41817 – 41818	1816 - 1817 (718 - 719)	PV7 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41819 – 41820	1818 - 1819 (71A - 71B)	PV7 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41821 – 41822	1820 - 1821 (71C - 71D)	PV8 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41823 – 41824	1822 - 1823 (71E - 71F)	PV8 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41825 – 41826	1824 - 1825 (720 - 721)	PV9 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41827 – 41828	1826 - 1827 (722 - 723)	PV9 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41829 – 41830	1828 - 1829 (724 - 725)	PV10 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
41831 – 41832	1830 - 1831 (726 - 727)	PV10 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41833 – 41834	1832 - 1833 (728 - 729)	PV11 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41835 – 41836	1834 - 1835 (72A - 72B)	PV11 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41837 – 41838	1836 - 1837 (72C - 72D)	PV12 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41839 – 41840	1838 - 1839 (72E - 72F)	PV12 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41841 – 41842	1840 - 1841 (730 - 731)	PV13 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41843 – 41844	1842 - 1843 (732 - 733)	PV13 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41845 – 41846	1844 - 1845 (734 - 735)	PV14 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41847 – 41848	1846 - 1847 (736 - 737)	PV14 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41849 – 41850	1848 - 1849 (738 - 739)	PV15 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41851 – 41852	1850 - 1851 (73A - 73B)	PV15 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41853 – 41854	1852 - 1853 (73C - 73D)	PV16 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41855 – 41856	1854 - 1855 (73E - 73F)	PV16 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41857 – 41858	1856 - 1857 (740 - 741)	PV3 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41859 – 41860	1858 - 1859 (742 - 743)	PV3 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
41861 – 41862	1860 - 1861 (744 - 745)	PV4 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41863 – 41864	1862 - 1863 (746 - 747)	PV4 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41865 – 41866	1864 - 1865 (748 - 749)	PV5 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41867 – 41868	1866 - 1867 (74A - 74B)	PV5 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41869 – 41870	1868 - 1869 (74C - 74D)	PV6 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41871 – 41872	1870 - 1871 (74E - 74F)	PV6 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41873 – 41874	1872 - 1873 (750 - 751)	PV7 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41875 – 41876	1874 - 1875 (752 - 753)	PV7 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41877 – 41878	1876 - 1877 (754 - 755)	PV8 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41879 – 41880	1878 - 1879 (756 - 757)	PV8 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41881 – 41882	1880 - 1881 (758 - 759)	PV9 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41883 – 41884	1882 - 1883 (75A - 75B)	PV9 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41885 – 41886	1884 - 1885 (75C - 75D)	PV10 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41887 – 41888	1886 - 1887 (75E - 75F)	PV10 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41889 – 41890	1888 - 1889 (760 - 761)	PV11 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
41891 – 41892	1890 - 1891 (762 - 763)	PV11 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41893 – 41894	1892 - 1893 (764 - 765)	PV12 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41895 – 41896	1894 - 1895 (766 - 767)	PV12 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41897 – 41898	1896 - 1897 (768 - 769)	PV13 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41899 – 41900	1898 - 1899 (76A - 76B)	PV13 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41901 – 41902	1900 - 1901 (76C - 76D)	PV14 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41903 – 41904	1902 - 1903 (76E - 76F)	PV14 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41905 – 41906	1904 - 1905 (770 - 771)	PV15 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41907 – 41908	1906 - 1907 (772 - 773)	PV15 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41909 – 41910	1908 - 1909 (774 - 775)	PV16 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41911 – 41912	1910 - 1911 (776 - 777)	PV16 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41913 – 41914	1912 - 1913 (778 - 779)	Math 1 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41915 – 41916	1914 - 1915 (77A - 77B)	Math 1 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41917 – 41918	1916 - 1917 (77C - 77D)	Math 2 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41919 – 41920	1918 - 1919 (77E - 77F)	Math 2 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
41921 – 41922	1920 - 1921 (780 - 781)	Math 3 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41923 – 41924	1922 - 1923 (782 - 783)	Math 3 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41925 – 41926	1924 - 1925 (784 - 785)	Math 4 Display 1	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41927 – 41928	1926 - 1927 (786 - 787)	Math 4 Display 2	Read Write	-99999 to 999999	User defined	Floating point	03, 04, 06, 16	
41929– 41930	1928 - 1929 (788 - 789)	Math 1 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41931 – 41932	1930 - 1931 (78A - 78B)	Math 1 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41933– 41934	1932 - 1933 (78C - 78D)	Math2 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41935 – 41936	1934 - 1935 (78E - 78F)	Math 2 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41937– 41938	1936 - 1937 (790 - 791)	Math 3 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41939 – 41940	1938 - 1939 (792 - 793)	Math 3 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41941– 41942	1940 - 1941 (794 - 795)	Math 4 Input 1	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	After all the Display and Input values have been sent, write 0xFFXX to register 41945, where XX is the PV #
41943 – 41944	1942 - 1943 (796 - 797)	Math 4 Input 2	Read Write	-99.999 to 99.999	User defined	Floating point	03, 04, 06, 16	
41945	1944 (798)	PV Remote Scale Command	Write Only	0xFFXX to execute remote scaling.	None	Unsigned integer	06, 16	Used to calculate remote scale. Argument is 0xFFXX where XX is the PV channel # (e.g. 0xFF0A = PV 10) Caution! See Note 5.
41946 – 46999								Reserved or not used
47001 – 47002	7000 - 7001 (1B58 - 1B59)	PV1 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	Represents the PV1 display value including the decimal point. Under Range = -99999, Over Range = 999999, and Open = -99999

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47003 – 47004	7002 - 7003 (1B5A - 1B5B)	PV2 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47005 – 47006	7004 - 7005 (1B5C - 1B5D)	PV3 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47007 – 47008	7006 - 7007 (1B5E - 1B5F)	PV4 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47009 – 47010	7008 - 7009 (1B60 - 1B61)	PV5 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47011 – 47012	7010 - 7011 (1B62 - 1B63)	PV6 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47013 – 47014	7012 - 7013 (1B64 - 1B65)	PV7 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47015 – 47016	7014 - 7015 (1B66 - 1B67)	PV8 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47017 – 47018	7016 - 7017 (1B68 - 1B69)	PV9 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47019 – 47020	7018 - 7019 (1B6A - 1B6B)	PV10 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47021 – 47022	7020 - 7021 (1B6C - 1B6D)	PV11 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47023 – 47024	7022 - 7023 (1B6E - 1B6F)	PV12 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47025 – 47026	7024 - 7025 (1B70 - 1B71)	PV13 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47027 – 47028	7026 - 7027 (1B72 - 1B73)	PV14 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47029 – 47030	7028 - 7029 (1B74 - 1B75)	PV15 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47031 – 47032	7030 - 7031 (1B76 - 1B77)	PV16 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47033 – 47034	7032 - 7033 (1B78 - 1B79)	PV1 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	Represents the Maximum display value, including the decimal point, since last power up or Max Value reset.
47035 – 47036	7034 - 7035 (1B7A - 1B7B)	PV2 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47037 – 47038	7036 - 7037 (1B7C - 1B7D)	PV3 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47039 – 47047	7038 - 7039 (1B7E - 1B7F)	PV4 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47041 – 47042	7040 - 7041 (1B80 - 1B81)	PV5 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47043 – 47044	7042 - 7043 (1B82 - 1B83)	PV6 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47045 – 47046	7044 - 7045 (1B84 - 1B85)	PV7 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47047 – 47048	7046 - 7047 (1B86 - 1B87)	PV8 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47049 – 47050	7048 - 7049 (1B88 - 1B89)	PV9 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47051 – 47052	7050 - 7051 (1B8A - 1B8B)	PV10 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47053 – 47054	7052 - 7053 (1B8C - 1B8D)	PV11 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47055 – 47056	7054 - 7055 (1B8E - 1B8F)	PV12 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47057 – 47058	7056 - 7057 (1B90 - 1B91)	PV13 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47059 – 47060	7058 - 7059 (1B92 - 1B93)	PV14 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47061 – 47062	7060 - 7061 (1B94 - 1B95)	PV15 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47063 – 47064	7062 - 7063 (1B96 - 1B97)	PV16 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47065 – 47066	7064 - 7065 (1B98 - 1B99)	PV1 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	Represents the Minimum display value, including the decimal point, since last power up or Min Value reset.
40067 – 47068	7066 - 7067 (1B9A - 1B9B)	PV2 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47069 – 47070	7068 - 7069 (1B9C - 1B9D)	PV3 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47071 – 47072	7070 - 7071 (1B9E - 1B9F)	PV4 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47073 – 47074	7072 - 7073 (1BA0 - 1BA1)	PV5 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47075 – 47076	7074 - 7075 (1BA2 - 1BA3)	PV6 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47077 – 47078	7076 - 7077 (1BA4 - 1BA5)	PV7 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47079 – 47080	7078 - 7079 (1BA6 - 1BA7)	PV8 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47081 – 47082	7080 - 7081 (1BA8 - 1BA9)	PV9 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47083 – 47084	7082 - 7083 (1BAA - 1BAB)	PV10 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47085 – 47086	7084 - 7085 (1BAC - 1BAD)	PV11 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47087 – 47088	7086 - 7087 (1BAE - 1BAF)	PV12 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47089 – 47090	7088 - 7089 (1BB0 - 1BB1)	PV13 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47091 – 47092	7090 - 7091 (1BB2 - 1BB3)	PV14 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47093 – 4794	7092 - 7093 (1BB4 - 1BB5)	PV15 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47095 – 47096	7094 - 7095 (1BB6 - 1BB7)	PV16 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47097 – 47098	7096 - 7097 (1BB8 - 1BB9)	Math Ch 1 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	Represents the value including the decimal point. Under Range = -99999, Over Range = 999999
47099 – 47100	7098 - 7099 (1BBA - 1BBB)	Math Ch 2 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47101 – 47102	7100 - 7101 (1BBC - 1BBD)	Math Ch 3 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47103 – 47104	7102 - 7103 (1BBE - 1BBF)	Math Ch 4 Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47105 – 47106	7104 - 7105 (1BC0 - 1BC1)	Math Ch 1 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	Represents the Maximum display value, including the decimal point, since last power up or Max Value reset.
47107 – 47108	7106 - 7107 (1BC2 - 1BC3)	Math Ch 2 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47109 – 47110	7108 - 7109 (1BC4 - 1BC5)	Math Ch 3 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47111 – 47112	7110 - 7111 (1BC6 - 1BC7)	Math Ch 4 Maximum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47113 – 47114	7112 - 7113 (1BC8 - 1BC9)	Math Ch 1 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	Represents the Minimum display value, including the decimal point, since last power up or Min Value reset.
47115 – 47116	7114 - 7115 (1BCA - 1BCB)	Math Ch 2 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47117 – 47118	7116 - 7117 (1BCC - 1BCD)	Math Ch 3 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47119 – 47120	7118 - 7119 (1BCE - 1BCF)	Math Ch 4 Minimum Display value	Read Only	-99999 to 999999	User defined	Floating point	03, 04	
47121	7120 (1BD0)	PV 1 Filter Setting	Read Write	0, 2 to 199	Unit-less	Integer	03, 04, 06, 16	Display filtering. 0 = no filtering. 2 to 199 = old + ((new - old)/Filter).
47122	7121 (1BD1)	PV 2 Filter Setting	Read Write	0, 2 to 199 or 202 to 250, 900	Unit-less	Integer	03, 04, 06, 16	
47123	7122 (1BD2)	Chan A Filter Setting	Read Write	0, 2 to 199 or 202 to 250, 900	Unit-less	Integer	03, 04, 06, 16	
47124	7123 (1BD3)	Chan B Filter Setting	Read Write	0, 2 to 199 or 202 to 250, 900	Unit-less	Integer	03, 04, 06, 16	
47125	7124 (1BD4)	PV 1 Bypass Setting	Read Write	2 to 999	Percent of full scale	Integer	03, 04, 06, 16	Actually represents 0.2 to 99.9. If the input steps greater than the bypass value, it will be displayed immediately, with no filtering occurring. The number represents percent of full-scale for process inputs. No effect if filter = 0.
47126	7125 (1BD5)	PV 1 Bypass Setting	Read Write	2 to 999	Percent of full scale	Integer	03, 04, 06, 16	
47127	7126 (1BD6)	Chan A Bypass Setting	Read Write	2 to 999	Percent of full scale	Integer	03, 04, 06, 16	
47128	7127 (1BD7)	Chan B Bypass Setting	Read Write	2 to 999	Percent of full scale	Integer	03, 04, 06, 16	
47129 – 47130	7128 - 7129 (1BD8 - 1BD9)	PV 1 Cutoff	Read Write	0 to 999999	User defined	Floating point	03, 04, 06, 16	Represents the cutoff value for Modbus PV1
47131 – 47132	7130 - 7131 (1BDA - 1BDB)	PV 2 Cutoff	Read Write	0 to 999999	User defined	Floating point	03, 04, 06, 16	Represents the cutoff value for Modbus PV2
47133 – 47134	7132 - 7133 (1BDC - 1BDD)	Chan A Cutoff	Read Write	0 to 999999	User defined	Floating point	03, 04, 06, 16	Represents the cutoff value for Ch-A

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47135 – 47136	7134 - 7135 (1BDE - 1BDF)	Chan B Cutoff	Read Write	0 to 999999	User defined	Floating point	03, 04, 06, 16	Represents the cutoff value for Ch-B
47137	7136 (1BE0)	PV1 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	0 = Linear, 1 = Square Root, 2 = Exponent, 3 = Round Horizontal Tank Applicable to all PVs
47138	7137 (1BE1)	PV2 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47139	7138 (1BE2)	PV3 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47140	7139 (1BE3)	PV4 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47141	7140 (1BE4)	PV5 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47142	7141 (1BE5)	PV6 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47143	7142 (1BE6)	PV7 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47144	7143 (1BE7)	PV8 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47145	7144 (1BE8)	PV9 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47146	7145 (1BE9)	PV10 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47147	7146 (1BEA)	PV11 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47148	7147 (1BEB)	PV12 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47149	7148 (1BEC)	PV13 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47150	7149 (1BED)	PV14 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47151	7150 (1BEE)	PV15 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47152	7151 (1BEF)	PV16 Function Mode	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47153	7152 (1BF0)	PV1 Number Of Points	Read Write	2 to 32	None	Integer	03, 04, 06, 16	This register is only used when register 47137 = 0 Linear.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47154	7153 (1BF1)	PV2 Number Of Points	Read Write	2 to 32	None	Integer	03, 04, 06, 16	This register is only used when register 47138 = 0 Linear.
47155	7154 (1BF2)	PV3 Number Of Points	Read Write	2	None	Integer	03, 04, 06, 16	
47156	7155 (1BF3)	PV4 Number Of Points	Read Write	2	None	Integer	03, 04, 06, 16	
47157	7156 (1BF4)	PV5 Number Of Points	Read Write	2	None	Integer	03, 04, 06, 16	
47158	7157 (1BF5)	PV6 Number Of Points	Read Write	2	None	Integer	03, 04, 06, 16	
47159	7158 (1BF6)	PV7 Number Of Points	Read Write	2	None	Integer	03, 04, 06, 16	
47160	7159 (1BF7)	PV8 Number Of Points	Read Write	2	None	Integer	03, 04, 06, 16	
47161	7160 (1BF8)	PV9 Number Of Points	Read Write	2	None	Integer	03, 04, 06, 16	
47162	7161 (1BF9)	PV10 Number Of Points	Read Write	2	None	Integer	03, 04, 06, 16	
47163	7162 (1BFA)	PV11 Number Of Points	Read Write	2	None	Integer	03, 04, 06, 16	
47164	7163 (1BFB)	PV12 Number Of Points	Read Write	2	None	Integer	03, 04, 06, 16	
47165	7164 (1BFC)	PV13 Number Of Points	Read Write	2	None	Integer	03, 04, 06, 16	
47166	7165 (1BFD)	PV14 Number Of Points	Read Write	2	None	Integer	03, 04, 06, 16	
47167	7166 (1BFE)	PV15 Number Of Points	Read Write	2	None	Integer	03, 04, 06, 16	
47168	7167 (1BFF)	PV16 Number Of Points	Read Write	2	None	Integer	03, 04, 06, 16	
47169	7168 (1C00)	PV1 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47137 = 2
47170	7169 (1C01)	PV2 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47138 = 2

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47171	7170 (1C02)	PV3 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47139 = 2
47172	7171 (1C03)	PV4 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47140 = 2
47173	7172 (1C04)	PV5 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47141 = 2
47174	7173 (1C05)	PV6 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47142 = 2
47175	7174 (1C06)	PV7 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47143 = 2
47176	7175 (1C07)	PV8 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47144 = 2
47177	7176 (1C08)	PV9 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47145 = 2
47178	7177 (1C09)	PV10 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47146 = 2
47179	7178 (1C0A)	PV11 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47147 = 2
47180	7179 (1C0B)	PV12 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47148 = 2
47181	7180 (1C0C)	PV13 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47149 = 2
47182	7181 (1C0D)	PV14 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47150 = 2
47183	7182 (1C0E)	PV15 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47151 = 2
47184	7183 (1C0F)	PV16 Exponent	Read Write	10001 to 29999	None	Integer	03, 04, 06, 16	Actually represents 1.0001 to 2.9999. Set register 47152 = 2
47185 – 47186	7184 - 7185 (1C10 - 1C11)	PV1 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Decimal point is fixed. The unit of measure is inch or cm; the volume calculation is in US gallon or liter. The display may be re-scaled to represent the volume in any engineering units. Register 47137 = 3 RHT
47187 – 47188	7186 - 7187 (1C12 - 1C13)	PV2 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47138 = 3 RHT
47189 – 47190	7188 - 7189 (1C14 - 1C15)	PV3 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47139 = 3 RHT

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47191 – 47192	7190 - 7191 (1C16 - 1C17)	PV4 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47140 = 3 RHT
47193 – 47194	7192 - 7193 (1C18 - 1C19)	PV5 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47141 = 3 RHT
47195 – 47196	7194 - 7195 (1C1A - 1C1B)	PV6 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47142 = 3 RHT
47197 – 47198	7196 - 7197 (1C1C - 1C1D)	PV7 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47143 = 3 RHT
47199 – 47200	7198 - 7199 (1C1E - 1C1F)	PV8 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47144 = 3 RHT
47201 – 47202	7200 - 7201 (1C20 - 1C21)	PV9 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47145 = 3 RHT
47203 – 47204	7202 - 7203 (1C22 - 1C23)	PV10 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47146 = 3 RHT
47205 – 47206	7204 - 7205 (1C24 - 1C25)	PV11 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47147 = 3 RHT
47207 – 47208	7206 - 7207 (1C26 - 1C27)	PV12 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47148 = 3 RHT
47209 – 47210	7208 - 7209 (1C28 - 1C29)	PV13 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47149 = 3 RHT
47211 – 47212	7210 - 7211 (1C2A - 1C2B)	PV14 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47150 = 3 RHT
47213 – 47214	7212 - 7213 (1C2C - 1C2D)	PV15 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47151 = 3 RHT
47215 – 47216	7214 - 7215 (1C2E - 1C2F)	PV16 Round Horizontal Tank Diameter	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47152 = 3 RHT

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47217 – 47218	7216 - 7217 (1C30 - 1C31)	PV1 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	Register 47249 – 47264 Round horizontal tank units 0 = inch Volume: Gallon 1 = cm Volume: Liter
47219 – 47220	7218 - 7219 (1C32 - 1C33)	PV2 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	
47221 – 47222	7220 - 7221 (1C34 - 1C35)	PV3 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	
47223 – 47224	7222 - 7223 (1C36 - 1C37)	PV4 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	
47225 – 47226	7224 - 7225 (1C38 - 1C39)	PV5 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	
47227 – 47228	7226 - 7227 (1C3A - 1C3B)	PV6 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	
47229 – 47230	7228 - 7229 (1C3C - 1C3D)	PV7 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	
47231 – 47232	7230 - 7231 (1C3E - 1C3F)	PV8 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	
47233 – 47234	7232 - 7233 (1C40 - 1C41)	PV9 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	
47235 – 47236	7234 - 7235 (1C42 - 1C43)	PV10 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	
47237 – 47238	7236 - 7237 (1C44 - 1C45)	PV11 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	
47239 – 47240	7238 - 7239 (1C46 - 1C47)	PV12 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	
47241 – 47242	7240 - 7241 (1C48 - 1C49)	PV13 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47243 – 47244	7242 - 7243 (1C4A - 1C4B)	PV14 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	
47245 – 47246	7244 - 7245 (1C4C - 1C4D)	PV15 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	
47247 – 47248	7246 - 7247 (1C4E - 1C4F)	PV16 Round Horizontal Tank Length	Read Write	0 to 999.999	Inch/cm	Floating point	03, 04, 06, 16	
47249	7248 (1C50)	PV1 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	Round horizontal tank engineering units 0 = inch Volume: Gallon 1 = cm Volume: Liter These registers are only used when registers 47137 – 7152 = 3 RHT. Tank diameter and length: Registers 47217 - 7248.
47250	7249 (1C51)	PV2 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	
47251	7250 (1C52)	PV3 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	
47252	7251 (1C53)	PV4 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	
47253	7252 (1C54)	PV5 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	
47254	7253 (1C55)	PV6 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	
47255	7254 (1C56)	PV7 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	
47256	7255 (1C57)	PV8 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	
47257	7256 (1C58)	PV9 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	
47258	7257 (1C59)	PV10 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	
47259	7258 (1C5A)	PV11 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	
47260	7259 (1C5B)	PV12 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	
47261	7260 (1C5C)	PV13 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47262	7261 (1C5D)	PV14 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	
47263	7262 (1C5E)	PV15 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	
47264	7263 (1C5F)	PV16 RHT Inch/cm Selection	Read Write	0 or 1	Inch or cm	Integer	03, 04, 06, 16	
47265	7264 (1C60)	PV1 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	Selects based on number of digits to the right of the decimal point (e.g. 0 = no decimal point and 5 = d.ddddd)
47266	7265 (1C61)	PV2 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47267	7266 (1C62)	PV3 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47268	7267 (1C63)	PV4 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47269	7268 (1C64)	PV5 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47270	7269 (1C65)	PV6 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47271	7270 (1C66)	PV7 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47272	7271 (1C67)	PV8 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47273	7272 (1C68)	PV9 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47274	7273 (1C69)	PV10 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47275	7274 (1C6A)	PV11 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47276	7275 (1C6B)	PV12 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47277	7276 (1C6C)	PV13 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47278	7277 (1C6D)	PV14 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47279	7278 (1C6E)	PV15 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47280	7279 (1C6F)	PV16 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47281	7280 (1C70)	Math Ch 1 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47282	7281 (1C71)	Math Ch 2 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47283	7282 (1C72)	Math Ch 3 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47284	7283 (1C73)	Math Ch 4 decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47285	7284 (1C74)	PV1 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	Decimal point used for the resolution of the floating point value. (e.g. 45.6789 vs. 45.8, 10.0000 = 10)
47286	7285 (1C75)	PV2 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47287	7286 (1C76)	PV3 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47288	7287 (1C77)	PV4 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47289	7288 (1C78)	PV5 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47290	7289 (1C79)	PV6 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47291	7290 (1C7A)	PV7 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47292	7291 (1C7B)	PV8 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47293	7292 (1C7C)	PV9 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47294	7293 (1C7D)	PV10 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47295	7294 (1C7E)	PV11 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47296	7295 (1C7F)	PV12 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47297	7296 (1C80)	PV13 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47298	7297 (1C81)	PV14 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47299	7298 (1C82)	PV15 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47300	7299 (1C83)	PV16 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47301	7300 (1C84)	Math Ch 1 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47302	7301 (1C85)	Math Ch 2 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47303	7302 (1C86)	Math Ch 3 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47304	7303 (1C87)	Math Ch 4 Float decimal point	Read Write	0 to 5	None	Integer	03, 04, 06, 16	
47305	7304 (1C88)	Top Display PV List Ch1	Read Write	0 to 16	None	Integer	03, 04, 06, 16	Select the first PV to be displayed in sequence on the top display 0 = PV1
47306	7305 (1C89)	Top Display PV List Ch2	Read Write	0 to 16	None	Integer	03, 04, 06, 16	Select the second PV to be displayed in sequence on the top display 1 = PV2
47307	7306 (1C8A)	Top Display PV List Ch3	Read Write	0 to 16	None	Integer	03, 04, 06, 16	Select the third PV to be displayed in sequence on the top display 2 = PV3, etc.
47308	7307 (1C8B)	Top Display PV List Ch4	Read Write	0 to 16	None	Integer	03, 04, 06, 16	16 = None. Settings after the value set to 16 (none) are ignored.
47309	7308 (1C8C)	Top Display PV List Ch5	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47310	7309 (1C8D)	Top Display PV List Ch6	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47311	7310 (1C8E)	Top Display PV List Ch7	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47312	7311 (1C8F)	Top Display PV List Ch8	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47313	7312 (1C90)	Top Display PV List Ch9	Read Write	0 to 16	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47314	7313 (1C91)	Top Display PV List Ch10	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47315	7314 (1C92)	Top Display PV List Ch11	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47316	7315 (1C93)	Top Display PV List Ch12	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47317	7316 (1C94)	Top Display PV List Ch13	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47318	7317 (1C95)	Top Display PV List Ch14	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47319	7318 (1C96)	Top Display PV List Ch15	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47320	7319 (1C97)	Top Display PV List Ch16	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47321	7320 (1C98)	Bottom Display PV List Ch1	Read Write	0 to 16	None	Integer	03, 04, 06, 16	Select the first PV to be displayed in sequence on the bottom display. 0 = PV1
47322	7321 (1C99)	Bottom Display PV List Ch2	Read Write	0 to 16	None	Integer	03, 04, 06, 16	Select the second PV to be displayed in sequence on the bottom display. 1 = PV2
47323	7322 (1C9A)	Bottom Display PV List Ch3	Read Write	0 to 16	None	Integer	03, 04, 06, 16	Select the third PV to be displayed in sequence on the bottom display 2 = PV3, etc.
47324	7323 (1C9B)	Bottom Display PV List Ch4	Read Write	0 to 16	None	Integer	03, 04, 06, 16	16 = None. Settings after the value set to 16 (none) are ignored.
47325	7324 (1C9C)	Bottom Display PV List Ch5	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47326	7325 (1C9D)	Bottom Display PV List Ch6	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47327	7326 (1C9E)	Bottom Display PV List Ch7	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47328	7327 (1C9F)	Bottom Display PV List Ch8	Read Write	0 to 16	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47329	7328 (1CA0)	Bottom Display PV List Ch9	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47330	7329 (1CA1)	Bottom Display PV List Ch10	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47331	7330 (1CA2)	Bottom Display PV List Ch11	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47332	7331 (1CA3)	Bottom Display PV List Ch12	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47333	7332 (1CA4)	Bottom Display PV List Ch13	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47334	7333 (1CA5)	Bottom Display PV List Ch14	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47335	7334 (1CA6)	Bottom Display PV List Ch15	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47336	7335 (1CA7)	Bottom Display PV List Ch16	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47337 – 47338	7336 - 7337 (1CA8 - 1CA9)	Modbus Slave Display	Read Write	0 to 999999	None	Defined by scanner	03, 04, 06, 16	This register or register pair is a Short integer, Long integer or a Floating Point value as determined in the Slave scanner setup.
47339 - 47380								Not used
47381	7380 (1CD4)	PV1 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47382	7381 (1CD5)	PV2 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47383	7382 (1CD6)	PV3 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47384	7383 (1CD7)	PV4 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47385	7384 (1CD8)	PV5 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47386	7385 (1CD9)	PV6 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47387	7386 (1CDA)	PV7 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47388	7387 (1CDB)	PV8 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47389	7388 (1CDC)	PV9 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47390	7389 (1CDD)	PV10 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47391	7390 (1CDE)	PV11 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47392	7391 (1CDF)	PV12 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47393	7392 (1CE0)	PV13 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47394	7393 (1CE1)	PV14 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47395	7394 (1CE2)	PV15 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47396	7395 (1CE3)	PV16 Modbus Scan Enable	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47397	7396 (1CE4)	PV1 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	
47398	7397 (1CE5)	PV2 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	
47399	7398 (1CE6)	PV3 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	
47400	7399 (1CE7)	PV4 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	
47401	7400 (1CE8)	PV5 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	
47402	7401 (1CE9)	PV6 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	
47403	7402 (1CEA)	PV7 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	
47404	7403 (1CEB)	PV8 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	
47405	7404 (1CEC)	PV9 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	
47406	7405 (1CED)	PV10 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47407	7406 (1CEE)	PV11 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	
47408	7407 (1CEF)	PV12 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	
47409	7408 (1CF0)	PV13 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	
47410	7409 (1CF1)	PV14 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	
47411	7410 (1CF2)	PV15 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	
47412	7411 (1CF3)	PV16 Modbus Slave ID	Read Write	0 to 259	None	Integer	03, 04, 06, 16	
47413	7412 (1CF4)	PV 1 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47414	7413 (1CF5)	PV 2 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47415	7414 (1CF6)	PV 3 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47416	7415 (1CF7)	PV 4 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47417	7416 (1CF8)	PV 5 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47418	7417 (1CF9)	PV 6 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47419	7418 (1CFA)	PV 7 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47420	7419 (1CFB)	PV 8 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47421	7420 (1CFC)	PV 9 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47422	7421 (1CFD)	PV 10 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47423	7422 (1CFE)	PV 11 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47424	7423 (1CFF)	PV 12 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47425	7424 (1D00)	PV 13 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47426	7425 (1D01)	PV 14 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47427	7426 (1D02)	PV 15 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47428	7427 (1D03)	PV 16 Function Code	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47429-47430	7428 - 7429 (1D04 - 1D05)	PV1 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	
47431-47432	7430 - 7431 (1D06 - 1D07)	PV2 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	
47433-47434	7432 - 7433 (1D08 - 1D09)	PV3 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	
47435-47436	7434 - 7435 (1D0A - 1D0B)	PV4 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	
47437-47438	7436 - 7437 (1D0C - 1D0D)	PV5 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	
47439-47440	7438 - 7439 (1D0E - 1D0F)	PV6 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	
47441-47442	7440 - 7441 (1D10 - 1D11)	PV7 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	
47443-47444	7442 - 7443 (1D12 - 1D13)	PV8 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	
47445-47446	7444 - 7445 (1D14 - 1D15)	PV9 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	
47447-47448	7446 - 7447 (1D16 - 1D17)	PV10 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47449-47450	7448 - 7449 (1D18 - 1D19)	PV11 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	
47451-47452	7450 - 7451 (1D1A - 1D1B)	PV12 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	
47453-47454	7452 - 7453 (1D1C - 1D1D)	PV13 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	
47455-47456	7454 - 7455 (1D1E - 1D1F)	PV14 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	
47457-47458	7456 - 7457 (1D20 - 1D21)	PV15 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	
47459-47460	7458 - 7459 (1D22 - 1D23)	PV16 Modbus Scan Register Number	Read Write	0 to 499999	None	Long	03, 04, 06, 16	
47461	7460 (1D24)	PV1 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47462	7461 (1D25)	PV2 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47463	7462 (1D26)	PV3 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47464	7463 (1D27)	PV4 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47465	7464 (1D28)	PV5 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47466	7465 (1D29)	PV6 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47467	7466 (1D2A)	PV7 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47468	7467 (1D2B)	PV8 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47469	7468 (1D2C)	PV9 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47470	7469 (1D2D)	PV10 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47471	7470 (1D2E)	PV11 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47472	7471 (1D2F)	PV12 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47473	7472 (1D30)	PV13 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47474	7473 (1D31)	PV14 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47475	7474 (1D32)	PV15 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47476	7475 (1D33)	PV16 Modbus Scan 5 or 6 Digit Register Number	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47477	7476 (1D34)	PV1 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	
47478	7477 (1D35)	PV2 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	
47479	7478 (1D36)	PV3 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	
47480	7479 (1D37)	PV4 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	
47481	7480 (1D38)	PV5 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	
47482	7481 (1D39)	PV6 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47483	7482 (1D3A)	PV7 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	
47484	7483 (1D3B)	PV8 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	
47485	7484 (1D3C)	PV9 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	
47486	7485 (1D3D)	PV10 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	
47487	7486 (1D3E)	PV11 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	
47488	7487 (1D3F)	PV12 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	
47489	7488 (1D40)	PV13 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	
47490	7489 (1D41)	PV14 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	
47491	7490 (1D42)	PV15 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	
47492	7491 (1D43)	PV16 Modbus Scan Data Type	Read Write	0 or 2	None	Integer	03, 04, 06, 16	
47493	7492 (1D44)	PV1 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47494	7493 (1D45)	PV2 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47495	7494 (1D46)	PV3 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47496	7495 (1D47)	PV4 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47497	7496 (1D48)	PV5 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47498	7497 (1D49)	PV6 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47499	7498 (1D4A)	PV7 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47500	7499 (1D4B)	PV8 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47501	7500 (1D4C)	PV9 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47502	7501 (1D4D)	PV10 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47503	7502 (1D4E)	PV11 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47504	7503 (1D4F)	PV12 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47505	7504 (1D50)	PV13 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47506	7505 (1D51)	PV14 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47507	7506 (1D52)	PV15 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47508	7507 (1D53)	PV16 Modbus Scan Binary or BCD	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47509	7508 (1D54)	PV1 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47510	7509 (1D55)	PV2 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47511	7510 (1D56)	PV3 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47512	7511 (1D57)	PV4 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47513	7512 (1D58)	PV5 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47514	7513 (1D59)	PV6 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47515	7514 (1D5A)	PV7 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47516	7515 (1D5B)	PV8 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47517	7516 (1D5C)	PV9 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47518	7517 (1D5D)	PV10 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47519	7518 (1D5E)	PV11 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47520	7519 (1D5F)	PV12 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47521	7520 (1D60)	PV13 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47522	7521 (1D61)	PV14 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47523	7522 (1D62)	PV15 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47524	7523 (1D63)	PV16 Modbus Scan Signed Data	Read Write	0 or 1	None	Integer	03, 04, 06, 16	
47525	7524 (1D64)	PV1 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47526	7525 (1D65)	PV2 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47527	7526 (1D66)	PV3 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47528	7527 (1D67)	PV4 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47529	7528 (1D68)	PV5 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47530	7529 (1D69)	PV6 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47531	7530 (1D6A)	PV7 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47532	7531 (1D6B)	PV8 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47533	7532 (1D6C)	PV9 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47534	7533 (1D6D)	PV10 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47535	7534 (1D6E)	PV11 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47536	7535 (1D6F)	PV12 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47537	7536 (1D70)	PV13 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47538	7537 (1D71)	PV14 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47539	7538 (1D72)	PV15 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47540	7539 (1D73)	PV16 Modbus Scan Data Order	Read Write	0 to 3	None	Integer	03, 04, 06, 16	
47541	7540 (1D74)	PV1 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47542	7541 (1D75)	PV2 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47543	7542 (1D76)	PV3 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47544	7543 (1D77)	PV4 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47545	7544 (1D78)	PV5 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47546	7545 (1D79)	PV6 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47547	7546 (1D7A)	PV7 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47548	7547 (1D7B)	PV8 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47549	7548 (1D7C)	PV9 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47550	7549 (1D7D)	PV10 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47551	7550 (1D7E)	PV11 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47552	7551 (1D7F)	PV12 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47553	7552 (1D80)	PV13 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47554	7553 (1D81)	PV14 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47555	7554 (1D82)	PV15 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47556	7555 (1D83)	PV16 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47557	7556 (1D84)	Math Ch 1 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47558	7557 (1D85)	Math Ch 2 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47559	7558 (1D86)	Math Ch 3 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47560	7559 (1D87)	Math Ch 4 Display Format	Read Write	0 to 2	None	Integer	03, 04, 06, 16	
47561	7560 (1D88)	Scanner Mode	Read Write	0 to 2	None	Integer	03, 04, 06, 16	0 = Master, 1 = Snooper, 2 = Slave
47562	7561 (1D89)	Modbus Scan Poll Time	Read Write	10 to 999	0.1 seconds	Integer	03, 04, 06, 16	In 0.1 second resolution
47563	7562 (1D8A)	Modbus Scan Response Time	Read Write	10 to 999	0.1 seconds	Integer	03, 04, 06, 16	In 0.1 second resolution
47564	7563 (1D8B)	Modbus Scan Auto / Manual Select	Read Write	0 to 1	None	Integer	03, 04, 06, 16	
47565	7564 (1D8C)	Display Scan Rate	Read Write	10 to 999	0.1 seconds	Integer	03, 04, 06, 16	In 0.1 second resolution
47566	7565 (1D8D)	Display Alarm Stop / Go Select	Read Write	0 to 1	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47567	7566 (1D8E)	Math Ch 1 Math 1 Function	Read Write	0 to 12	None	Integer	03, 04, 06, 16	See Table 8
47568	7567 (1D8F)	Math Ch 2 Math 1 Function	Read Write	0 to 12	None	Integer	03, 04, 06, 16	See Table 8
47569	7568 (1D90)	Math Ch 3 Math 1 Function	Read Write	0 to 12	None	Integer	03, 04, 06, 16	See Table 8
47570	7569 (1D91)	Math Ch 4 Math 1 Function	Read Write	0 to 12	None	Integer	03, 04, 06, 16	See Table 8
47571	7570 (1D92)	Math Ch 1 Math 2 Function	Read Write	0 to 5	None	Integer	03, 04, 06, 16	See Table 9
47572	7571 (1D93)	Math Ch 2 Math 2 Function	Read Write	0 to 5	None	Integer	03, 04, 06, 16	See Table 9
47573	7572 (1D94)	Math Ch 3 Math 2 Function	Read Write	0 to 5	None	Integer	03, 04, 06, 16	See Table 9
47574	7573 (1D95)	Math Ch 4 Math 2 Function	Read Write	0 to 5	None	Integer	03, 04, 06, 16	See Table 9
47575	7574 (1D96)	Math 1 Ch 1 Source 1	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47576	7575 (1D97)	Math 1 Ch 1 Source 2	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47577	7576 (1D98)	Math 1 Ch 1 Source 3	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47578	7577 (1D99)	Math 1 Ch 1 Source 4	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47579	7578 (1D9A)	Math 1 Ch 1 Source 5	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47580	7579 (1D9B)	Math 1 Ch 1 Source 6	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
475781	7580 (1D9C)	Math 1 Ch 1 Source 7	Read Write	0 to 16	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47582	7581 (1D9D)	Math 1 Ch 1 Source 8	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47583	7582 (1D9E)	Math 1 Ch 1 Source 9	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47584	7583 (1D9F)	Math 1 Ch 1 Source 10	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47585	7584 (1DA0)	Math 1 Ch 1 Source 11	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47586	7585 (1DA1)	Math 1 Ch 1 Source 12	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47587	7586 (1DA2)	Math 1 Ch 1 Source 13	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47588	7587 (1DA3)	Math 1 Ch 1 Source 14	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47589	7588 (1DA4)	Math 1 Ch 1 Source 15	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47590	7589 (1DA5)	Math 1 Ch 1 Source 16	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47591	7590 (1DA6)	Math 1 Ch 2 Source 1	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47592	7591 (1DA7)	Math 1 Ch 2 Source 2	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47593	7592 (1DA8)	Math 1 Ch 2 Source 3	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47594	7593 (1DA9)	Math 1 Ch 2 Source 4	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47595	7594 (1DAA)	Math 1 Ch 2 Source 5	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47596	7595 (1DAB)	Math 1 Ch 2 Source 6	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47597	7596 (1DAC)	Math 1 Ch 2 Source 7	Read Write	0 to 16	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47598	7597 (1DAD)	Math 1 Ch 2 Source 8	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47599	7598 (1DAE)	Math 1 Ch 2 Source 9	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47600	7599 (1DAF)	Math 1 Ch 2 Source 10	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47601	7600 (1DB0)	Math 1 Ch 2 Source 11	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47602	7601 (1DB1)	Math 1 Ch 2 Source 12	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47603	7602 (1DB2)	Math 1 Ch 2 Source 13	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47604	7603 (1DB3)	Math 1 Ch 2 Source 14	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47605	7604 (1DB4)	Math 1 Ch 2 Source 15	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47606	7605 (1DB5)	Math 1 Ch 2 Source 16	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47607	7606 (1DB6)	Math 1 Ch 3 Source 1	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47608	7607 (1DB7)	Math 1 Ch 3 Source 2	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47609	7608 (1DB8)	Math 1 Ch 3 Source 3	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47610	7609 (1DB9)	Math 1 Ch 3 Source 4	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47611	7610 (1DBA)	Math 1 Ch 3 Source 5	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47612	7611 (1DBB)	Math 1 Ch 3 Source 6	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47613	7612 (1DBC)	Math 1 Ch 3 Source 7	Read Write	0 to 16	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47614	7613 (1DBD)	Math 1 Ch 3 Source 8	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47615	7614 (1DBE)	Math 1 Ch 3 Source 9	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47616	7615 (1DBF)	Math 1 Ch 3 Source 10	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47617	7616 (1DC0)	Math 1 Ch 3 Source 11	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47618	7617 (1DC1)	Math 1 Ch 3 Source 12	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47619	7618 (1DC2)	Math 1 Ch 3 Source 13	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47620	7619 (1DC3)	Math 1 Ch 3 Source 14	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47621	7620 (1DC4)	Math 1 Ch 3 Source 15	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47622	7621 (1DC5)	Math 1 Ch 3 Source 16	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47623	7622 (1DC6)	Math 1 Ch 4 Source 1	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47624	7623 (1DC7)	Math 1 Ch 4 Source 2	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47625	7624 (1DC8)	Math 1 Ch 4 Source 3	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47626	7625 (1DC9)	Math 1 Ch 4 Source 4	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47627	7626 (1DCA)	Math 1 Ch 4 Source 5	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47628	7627 (1DCB)	Math 1 Ch 4 Source 6	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47629	7628 (1DCC)	Math 1 Ch 4 Source 7	Read Write	0 to 16	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47630	7629 (1DCD)	Math 1 Ch 4 Source 8	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47631	7630 (1DCE)	Math 1 Ch 4 Source 9	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47632	7631 (1DCF)	Math 1 Ch 4 Source 10	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47633	7632 (1DD0)	Math 1 Ch 4 Source 11	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47634	7633 (1DD1)	Math 1 Ch 4 Source 12	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47635	7634 (1DD2)	Math 1 Ch 4 Source 13	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47636	7635 (1DD3)	Math 1 Ch 4 Source 14	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47637	7636 (1DD4)	Math 1 Ch 4 Source 15	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47638	7637 (1DD5)	Math 1 Ch 4 Source 16	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47639	7638 (1DD6)	Math 2 Ch 1 Source 1	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47640	7639 (1DD7)	Math 2 Ch 1 Source 2	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47641	7640 (1DD8)	Math 2 Ch 1 Source 3	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47642	7641 (1DD9)	Math 2 Ch 1 Source 4	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47643	7642 (1DDA)	Math 2 Ch 2 Source 1	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47644	7643 (1DDB)	Math 2 Ch 2 Source 2	Read Write	0 to 16	None	Integer	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47645	7644 (1DDC)	Math 2 Ch 2 Source 3	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47646	7645 (1DDD)	Math 2 Ch 2 Source 4	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47647	7646 (1DDE)	Math 2 Ch 3 Source 1	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47648	7647 (1DDF)	Math 2 Ch 3 Source 2	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47649	7648 (1DE0)	Math 2 Ch 3 Source 3	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47650	7649 (1DE1)	Math 2 Ch 3 Source 4	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47651	7650 (1DE2)	Math 2 Ch 4 Source 1	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47652	7651 (1DE3)	Math 2 Ch 4 Source 2	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47653	7652 (1DE4)	Math 2 Ch 4 Source 3	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47654	7653 (1DE5)	Math 2 Ch 4 Source 4	Read Write	0 to 16	None	Integer	03, 04, 06, 16	
47655 – 47656	7654 - 7655 (1DE6 - 1DE7)	Math Ch 1 Adder	Read Write	-99999 to 999999	None	Floating point	03, 04, 06, 16	
47657 – 47657	7656 - 7657 (1DE8 - 1DE9)	Math Ch 2 Adder	Read Write	-99999 to 999999	None	Floating point	03, 04, 06, 16	
47659 – 47660	7658 - 7659 (1DEA - 1DEB)	Math Ch 3 Adder	Read Write	-99999 to 999999	None	Floating point	03, 04, 06, 16	
47661 – 47662	7660 - 7661 (1DEC - 1DED)	Math Ch 4 Adder	Read Write	-99999 to 999999	None	Floating point	03, 04, 06, 16	
47663 – 47664	7662 - 7663 (1DEE - 1DEF)	Math Ch 1 Factor	Read Write	0.00001 to 999999	None	Floating point	03, 04, 06, 16	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments																																
Number	Address (Hex)																																							
47665 – 47666	7664 - 7665 (1DF0 - 1DF1)	Math Ch 2 Factor	Read Write	0.00001 to 999999	None	Floating point	03, 04, 06, 16																																	
47667 – 47668	7666 - 7667 (1DF2 - 1DF3)	Math Ch 3 Factor	Read Write	0.00001 to 999999	None	Floating point	03, 04, 06, 16																																	
47669 – 47670	7668 - 7669 (1DF4 - 1DF5)	Math Ch 4 Factor	Read Write	0.00001 to 999999	None	Floating point	03, 04, 06, 16																																	
47671	7670 (1DF6)	Relay 1 Multi Source	Read Write	None	None	Word; Bits	03, 04, 06, 16	Represents the PVs assigned to a relay (1 = assigned) <table border="1" style="font-size: small; width: 100%; text-align: center;"> <tr> <td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td> </tr> <tr> <td>PV 16</td><td>PV 15</td><td>PV 14</td><td>PV 13</td><td>PV 12</td><td>PV 11</td><td>PV 10</td><td>PV 9</td><td>PV 8</td><td>PV 7</td><td>PV 6</td><td>PV 5</td><td>PV 4</td><td>PV 3</td><td>PV 2</td><td>PV 1</td> </tr> </table>	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	PV 16	PV 15	PV 14	PV 13	PV 12	PV 11	PV 10	PV 9	PV 8	PV 7	PV 6	PV 5	PV 4	PV 3	PV 2	PV 1
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0																									
PV 16	PV 15	PV 14	PV 13	PV 12	PV 11	PV 10	PV 9	PV 8	PV 7	PV 6	PV 5	PV 4	PV 3	PV 2	PV 1																									
47672	7671 (1DF7)	Relay 2 Multi Source	Read Write	None	None	Word; Bits	03, 04, 06, 16	See comments for Relay 1 above																																
47673	7672 (1DF8)	Relay 3 Multi Source	Read Write	None	None	Word; Bits	03, 04, 06, 16	See comments for Relay 1 above																																
47674	7673 (1DF9)	Relay 4 Multi Source	Read Write	None	None	Word; Bits	03, 04, 06, 16	See comments for Relay 1 above																																
47675	7674 (1DFA)	Relay 5 Multi Source	Read Write	None	None	Word; Bits	03, 04, 06, 16	See comments for Relay 1 above																																
47676	7675 (1DFB)	Relay 6 Multi Source	Read Write	None	None	Word; Bits	03, 04, 06, 16	See comments for Relay 1 above																																
47677	7676 (1DFC)	Relay 7 Multi Source	Read Write	None	None	Word; Bits	03, 04, 06, 16	See comments for Relay 1 above																																
47678	7677 (1DFD)	Relay 8 Multi Source	Read Write	None	None	Word; Bits	03, 04, 06, 16	See comments for Relay 1 above																																
47679	7678 (1DFE)	PV 1 Break Flag	Read Only	0 or 1	None	Integer	03, 04,																																	
47680	7679 (1DFF)	PV 2 Break Flag	Read Only	0 or 1	None	Integer	03, 04,																																	
47681	7680 (1E00)	PV 3 Break Flag	Read Only	0 or 1	None	Integer	03, 04,																																	
47682	7681 (1E01)	PV 4 Break Flag	Read Only	0 or 1	None	Integer	03, 04,																																	
47683	7682 (1E02)	PV 5 Break Flag	Read Only	0 or 1	None	Integer	03, 04,																																	

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47684	7683 (1E03)	PV 6 Break Flag	Read Only	0 or 1	None	Integer	03, 04,	
47685	7684 (1E04)	PV 7 Break Flag	Read Only	0 or 1	None	Integer	03, 04,	
47686	7685 (1E05)	PV 8 Break Flag	Read Only	0 or 1	None	Integer	03, 04,	
47687	7686 (1E06)	PV 9 Break Flag	Read Only	0 or 1	None	Integer	03, 04,	
47688	7687 (1E07)	PV 10 Break Flag	Read Only	0 or 1	None	Integer	03, 04,	
47689	7688 (1E08)	PV 11 Break Flag	Read Only	0 or 1	None	Integer	03, 04,	
47690	7689 (1E09)	PV 12 Break Flag	Read Only	0 or 1	None	Integer	03, 04,	
47691	7690 (1E0A)	PV 13 Break Flag	Read Only	0 or 1	None	Integer	03, 04,	
47692	7691 (1E0B)	PV 14 Break Flag	Read Only	0 or 1	None	Integer	03, 04,	
47693	7692 (1E0C)	PV 15 Break Flag	Read Only	0 or 1	None	Integer	03, 04,	
47694	7693 (1E0D)	PV 16 Break Flag	Read Only	0 or 1	None	Integer	03, 04,	
47695	7694 (1E0E)	Math Ch 1 Break Flag	Read Only	0 or 1	None	Integer	03, 04,	
47696	7695 (1E0F)	Math Ch 2 Break Flag	Read Only	0 or 1	None	Integer	03, 04,	
47697	7696 (1E10)	Math Ch 3 Break Flag	Read Only	0 or 1	None	Integer	03, 04,	
47698	7697 (1E11)	Math Ch 4 Break Flag	Read Only	0 or 1	None	Integer	03, 04,	
47699 - 47700								Not used
47701	7700 (1E14)	PV1 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47702	7701 (1E15)	PV1 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47703	7702 (1E16)	PV1 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47704	7703 (1E17)	PV1 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47705	7704 (1E18)	PV1 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47706	7705 (1E19)	PV1 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47707	7706 (1E1A)	PV2 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47708	7707 (1E1B)	PV2 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47709	7708 (1E1C)	PV2 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47710	7709 (1E1D)	PV2 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47711	7710 (1E1E)	PV2 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47712	7711 (1E1F)	PV2 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47713	7712 (1E20)	PV3 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47714	7713 (1E21)	PV3 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47715	7714 (1E22)	PV3 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47716	7715 (1E23)	PV3 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47717	7716 (1E24)	PV3 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47718	7717 (1E25)	PV3 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47719	7718 (1E26)	PV4 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47720	7719 (1E27)	PV4 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47721	7720 (1E28)	PV4 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47722	7721 (1E29)	PV4 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47723	7722 (1E2A)	PV4 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47724	7723 (1E2B)	PV4 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47725	7724 (1E2C)	PV5 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47726	7725 (1E2D)	PV5 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47727	7726 (1E2E)	PV5 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47728	7727 (1E2F)	PV5 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47729	7728 (1E30)	PV5 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47730	7729 (1E31)	PV5 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47731	7730 (1E32)	PV6 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47732	7731 (1E33)	PV6 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47733	7732 (1E34)	PV6 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47734	7733 (1E35)	PV6 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47735	7734 (1E36)	PV6 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47736	7735 (1E37)	PV6 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47737	7736 (1E38)	PV7 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47738	7737 (1E39)	PV7 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47739	7738 (1E3A)	PV7 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47740	7739 (1E3B)	PV7 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47741	7740 (1E3C)	PV7 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47742	7741 (1E3D)	PV7 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47743	7742 (1E3E)	PV8 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47744	7743 (1E3F)	PV8 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47745	7744 (1E40)	PV8 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47746	7745 (1E41)	PV8 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47747	7746 (1E42)	PV8 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47748	7747 (1E43)	PV8 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47749	7748 (1E44)	PV9 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47750	7749 (1E45)	PV9 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47751	7750 (1E46)	PV9 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47752	7751 (1E47)	PV9 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47753	7752 (1E48)	PV9 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47754	7753 (1E49)	PV9 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47755	7754 (1E4A)	PV10 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47756	7755 (1E4B)	PV10 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47757	7756 (1E4C)	PV10 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47758	7757 (1E4D)	PV10 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47759	7758 (1E4E)	PV10 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47760	7759 (1E4F)	PV10 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47761	7760 (1E50)	PV11 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47762	7761 (1E51)	PV11 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47763	7762 (1E52)	PV11 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47764	7763 (1E53)	PV11 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47765	7764 (1E54)	PV11 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47766	7765 (1E55)	PV11 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47767	7766 (1E56)	PV12 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47768	7767 (1E57)	PV12 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47769	7768 (1E58)	PV12 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47770	7769 (1E59)	PV12 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47771	7770 (1E5A)	PV12 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47772	7771 (1E5B)	PV12 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47773	7772 (1E5C)	PV13 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47774	7773 (1E5D)	PV13 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47775	7774 (1E5E)	PV13 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47776	7775 (1E5F)	PV13 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47777	7776 (1E60)	PV13 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47778	7777 (1E61)	PV13 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47779	7778 (1E62)	PV14 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47780	7779 (1E63)	PV14 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47781	7780 (1E64)	PV14 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47782	7781 (1E65)	PV14 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47783	7782 (1E66)	PV14 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47784	7783 (1E67)	PV14 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47785	7784 (1E68)	PV15 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47786	7785 (1E69)	PV15 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47787	7786 (1E6A)	PV15 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47788	7787 (1E6B)	PV15 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47789	7788 (1E6C)	PV15 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47790	7789 (1E6D)	PV15 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47791	7790 (1E6E)	PV16 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47792	7791 (1E6F)	PV16 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47793	7792 (1E70)	PV16 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47794	7793 (1E71)	PV16 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47795	7794 (1E72)	PV16 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47796	7795 (1E73)	PV16 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47797	7796 (1E74)	Math 1 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47798	7797 (1E75)	Math 1 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47799	7798 (1E76)	Math 1 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47800	7799 (1E77)	Math 1 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47801	7800 (1E78)	Math 1 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47802	7801 (1E79)	Math 1 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47803	7802 (1E7A)	Math 2 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47804	7803 (1E7B)	Math 2 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47805	7804 (1E7C)	Math 2 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47806	7805 (1E7D)	Math 2 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47807	7806 (1E7E)	Math 2 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47808	7807 (1E7F)	Math 2 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47809	7808 (1E80)	Math 3 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47810	7809 (1E81)	Math 3 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47811	7810 (1E82)	Math 3 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47812	7811 (1E83)	Math 3 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47813	7812 (1E84)	Math 3 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47814	7813 (1E85)	Math 3 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47815	7814 (1E86)	Math 4 Units 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47816	7815 (1E87)	Math 4 Units 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47817	7816 (1E88)	Math 4 Units 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47818	7817 (1E89)	Math 4 Units 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47819	7818 (1E8A)	Math 4 Units 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47820	7819 (1E8B)	Math 4 Units 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47821	7820 (1E8C)	PV1 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47822	7821 (1E8D)	PV1 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47823	7822 (1E8E)	PV1 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47824	7823 (1E8F)	PV1 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47825	7824 (1E90)	PV1 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47826	7825 (1E91)	PV1 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47827	7826 (1E92)	PV2 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47828	7827 (1E93)	PV2 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47829	7828 (1E94)	PV2 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47830	7829 (1E95)	PV2 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47831	7830 (1E96)	PV2 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47832	7831 (1E97)	PV2 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47833	7832 (1E98)	PV3 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47834	7833 (1E99)	PV3 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47835	7834 (1E9A)	PV3 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47836	7835 (1E9B)	PV3 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47837	7836 (1E9C)	PV3 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47838	7837 (1E9D)	PV3 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47839	7838 (1E9E)	PV4 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47840	7839 (1E9F)	PV4 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47841	7840 (1EA0)	PV4 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47842	7841 (1EA1)	PV4 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47843	7842 (1EA2)	PV4 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47844	7843 (1EA3)	PV4 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47845	7844 (1EA4)	PV5 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47846	7845 (1EA5)	PV5 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47847	7846 (1EA6)	PV5 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47848	7847 (1EA7)	PV5 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47849	7848 (1EA8)	PV5 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47850	7849 (1EA9)	PV5 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47851	7850 (1EAA)	PV6 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47852	7851 (1EAB)	PV6 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47853	7852 (1EAC)	PV6 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47854	7853 (1EAD)	PV6 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47855	7854 (1EAE)	PV6 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47856	7855 (1EAF)	PV6 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47857	7856 (1EB0)	PV7 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47858	7857 (1EB1)	PV7 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47859	7858 (1EB2)	PV7 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47860	7859 (1EB3)	PV7 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47861	7860 (1EB4)	PV7 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47862	7861 (1EB5)	PV7 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47863	7862 (1EB6)	PV8 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47864	7863 (1EB7)	PV8 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47865	7864 (1EB8)	PV8 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47866	7865 (1EB9)	PV8 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47867	7866 (1EBA)	PV8 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47868	7867 (1EBB)	PV8 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47869	7868 (1EBC)	PV9 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47870	7869 (1EBD)	PV9 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47871	7870 (1EBE)	PV9 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47872	7871 (1EBF)	PV9 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47873	7872 (1EC0)	PV9 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47874	7873 (1EC1)	PV9 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47875	7874 (1EC2)	PV10 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47876	7875 (1EC3)	PV10 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47877	7876 (1EC4)	PV10 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47878	7877 (1EC5)	PV10 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47879	7878 (1EC6)	PV10 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47880	7879 (1EC7)	PV10 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47881	7880 (1EC8)	PV11 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47882	7881 (1EC9)	PV11 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47883	7882 (1ECA)	PV11 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47884	7883 (1ECB)	PV11 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47885	7884 (1ECC)	PV11 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47886	7885 (1ECD)	PV11 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47887	7886 (1ECE)	PV12 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47888	7887 (1ECF)	PV12 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47889	7888 (1ED0)	PV12 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47890	7889 (1ED1)	PV12 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47891	7890 (1ED2)	PV12 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47892	7891 (1ED3)	PV12 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47893	7892 (1ED4)	PV13 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47894	7893 (1ED5)	PV13 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47895	7894 (1ED6)	PV13 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47896	7895 (1ED7)	PV13 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47897	7896 (1ED8)	PV13 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47898	7897 (1ED9)	PV13 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47899	7898 (1EDA)	PV14 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47900	7899 (1EDB)	PV14 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47901	7900 (1EDC)	PV14 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47902	7901 (1EDD)	PV14 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47903	7902 (1EDE)	PV14 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47904	7903 (1EDF)	PV14 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47905	7904 (1EE0)	PV15 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47906	7905 (1EE1)	PV15 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47907	7906 (1EE2)	PV15 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47908	7907 (1EE3)	PV15 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47909	7908 (1EE4)	PV15 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47910	7909 (1EE5)	PV15 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47911	7910 (1EE6)	PV16 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47912	7911 (1EE7)	PV16 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47913	7912 (1EE8)	PV16 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47914	7913 (1EE9)	PV16 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47915	7914 (1EEA)	PV16 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47916	7915 (1EEB)	PV16 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47917	7916 (1EEC)	Math 1 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47918	7917 (1EED)	Math 1 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47919	7918 (1EEE)	Math 1 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47920	7919 (1EEF)	Math 1 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47921	7920 (1EF0)	Math 1 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47922	7921 (1EF1)	Math 1 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47923	7922 (1EF2)	Math 2 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47924	7923 (1EF3)	Math 2 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47925	7924 (1EF4)	Math 2 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47926	7925 (1EF5)	Math 2 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
47927	7926 (1EF6)	Math 2 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47928	7927 (1EF7)	Math 2 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47929	7928 (1EF8)	Math 3 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47930	7929 (1EF9)	Math 3 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47931	7930 (1EFA)	Math 3 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47932	7931 (1EFB)	Math 3 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47933	7932 (1EFC)	Math 3 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47934	7933 (1EFD)	Math 3 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47935	7934 (1EFE)	Math 4 Tag 1	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character.
47936	7935 (1EFF)	Math 4 Tag 2	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-1 value. The hex value represents the allowable ASCII character.
47937	7936 (1F00)	Math 4 Tag 3	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-2 value. The hex value represents the allowable ASCII character.
47938	7937 (1F01)	Math 4 Tag 4	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-3 value. The hex value represents the allowable ASCII character.
47939	7938 (1F02)	Math 4 Tag 5	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-4 value. The hex value represents the allowable ASCII character.
47940	7939 (1F03)	Math 4 Tag 6	Read Write	Not applicable	None	Byte	03, 04, 06, 16	Represents the Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character.
47941 - 49808								Not used
49901 – 49904	9900-9903 (26AC – 26AF)	Product Identifier	Read Only	Not applicable	None	ASCII characters	03, 04	8 characters indicating the product digit software release number (for SFT088 this would be 088), three ASCII hex character value of the Main board input, and two ASCII hex characters of the Input card (see Table 5).
49905 – 49908	9904-9907 (26B0 – 26B3)	Firmware Version	Read Only	Not applicable	None	ASCII characters	03, 04	8 characters indicating the firmware version number
49917	9916 (26BC)	Product Number	Read Only	0 to 99999	None	Integer	03, 04	See Table 6.

Register ¹		Name	Access	Limits or Range ²	Units	Data Type ³	Function Code(s)	Comments
Number	Address (Hex)							
49918	9917 (26BD)	Firmware Version	Read Only	0 to 99999	None	Integer	03, 04	Decimal point is not included (e.g. 1000 = v1.000)
49998	9997 (270D)	Init Serial Comm.	Write Only	0xFF00 to initialize	None	Unsigned integer	06, 16	Write 0xFF00 to initialize the scanner serial port after changing serial port parameters
49999	9998 (270E)	Load Factory Defaults	Write Only	0xFF00 to initialize	None	Unsigned integer	06, 16	Write 0xFF00 to load factory defaults to the scanner. Writing any other data has no effect.

Notes

Note 1. The Register numbers and addresses follow the Modbus format:

- 3xxxx are for Input Registers and are read – only.
- 4xxxx are for Holding Registers and are read/write.

Although there are no specific 3x Registers, all 4x Registers are mirrored into 3x register space, and are therefore capable of being read by Modbus function 04 (Read Input Registers). All data addresses in Modbus messages are referenced to zero (0), while Register addresses are referenced to one (1). For example, Register 40100 is sent in the Modbus message as 0x0063 (100 - 1 = 99 ≡ 63 hex). If two addresses are shown separated by a “ – ”, they form a register pair to make the parameter into a 4-byte (32 bit) value.

Note 2. Limits or Range: Writing a value that is outside the parameters range will force it to be limited to the closest value within the range. For example, if the range is -1.99 to +1.99 and the value sent is 3.21, the value used is 1.99. Likewise for the lower side of the range. Exceptions are noted in the comments.

Note 3. Data Types:

Data format is highest byte first (Byte order: 1234).

Word = 16 bit

Integer = -32768 to 32767

Unsigned integer = 0 to 65535

Long = -2,147,483,648 to 2,147,483,647

Float = IEEE floating point format, 4 bytes

For the complete floating point standard, see IEEE 754-1985 Standard for Binary Floating-Point Arithmetic.

Integer data: The values represent the number without regard to the decimal point. The decimal point setting can be found in Holding Register 40102.

For example, if the number 1234.56 is displayed, a read of both 40021 – 40022 together will return 1 – 23456 (0x0001 – 0xE240). Register 40102 will contain 2 (0x0002) to indicate a decimal point setting of two places to the right of the decimal point. A floating point version of the displayed number, with the decimal point included, is also available by accessing register 40001-40002.

Example (register values are shown in hexadecimal):

Process value displayed	Registers 40001 – 40002	Register 40021	Register 40022	Register 40102
123.456	42F6 – E979	0001	E240	0003
1234.56	449A – 51EC	0001	E240	0002
12345.6	4640 – E666	0001	E240	0001
-1234.5	C49A – 5000	FFFF	CFC7	0001

Note 4. A read of the Password register will return 0x000000 if the scanner is unlocked, otherwise it will return 0xFFFFFFFF to indicate a locked scanner. To unlock, the correct lock number must be written, which will then clear the lock number to 0x000000. If the wrong lock number is written, the reply will return 0xFFFFFFFF. If the correct lock number is written, the reply will be 0x000000. An unlocked scanner can be locked by writing any non – zero value up to 0x999999.

Note 5. Remote scaling procedure:

- Write the desired values for the display, Display 1 & 2, for the selected PV.
- Write the desired values for the input, Input 1 & 2, for the selected PV.
- Write to the remote scaling register for the selected PV.

WARNING

- The scaling process takes the input values and converts them to A/D counts. Therefore, do NOT execute a remote scaling register write without first writing the display and input registers. In a similar vein, don't write to the mA registers and then execute a remote scale command for the volts input.

Configuration Tables

Table 1. Display Settings

Top Display Settings (40117)

Integer	Function
0	N/A
1	Display Set Point 1
2	Display Set Point 2
3	Display Set Point 3
4	Display Set Point 4
5	Display Set Point 5
6	Display Set Point 6
7	Display Set Point 7
8	Display Set Point 8
9-22	N/A
23	N/A
24-55	N/A
56	Display PV Channel Array
57	Display Math Ch C Array
58	Display PV then Units Array
59	Display Tag then PVn Array
60	Display Tag then PVn then Units Array
61	Display Math Ch C then Units Array
62	Display Tag then Math Ch C then Units Array
63	Display High PV Array
64	Display Low PV Array
65	Display High Math Ch C Array
66	Display Low Math Ch C Array

Bottom Display Settings (40118)

Integer	Function
0	N/A
1	Display Set Point 1
2	Display Set Point 2
3	Display Set Point 3
4	Display Set Point 4
5	Display Set Point 5
6	Display Set Point 6
7	Display Set Point 7
8	Display Set Point 8
9-22	N/A
23	Display OFF
24-55	N/A
56	Display PV Channel Array
57	Display Math Ch C Array
58	Display PV then Units Array
59	Display Tag then PVn Array
60	Display Tag then PVn then Units Array
61	Display Math Ch C then Units Array
62	Display Tag then Math Ch C then Units Array
63	Display High PV Array
64	Display Low PV Array
65	Display High Math Ch C Array
66	Display Low Math Ch C Array
67	Display Tag for Top display value
68	Display Tag then Units for Top display value

Table 2. User Programmable Settings

Digital Inputs & Function Keys Setting (40201 – 40212)

Integer	Function
0	Disable Function
1	Menu Key
2	Right Arrow Key
3	Up Arrow Key
4	Enter Key
5	Acknowledge Alarms
6-9	N/A
10	Reset Maximum Value
11	Reset Minimum Value
12	Reset Max & Min Values
13-14	N/A
15	Relay Menu
16	Set Point 1 (Preset A) Programming
17	Set Point 2 Programming
18	Set Point 3 (Preset B) Programming
19	Set Point 4 Programming
20	Set Point 5 Programming
21	Set Point 6 Programming
22	Set Point 7 Programming
23	Set Point 8 Programming
24-25	N/A
26	Display Hold while active
27	Relay Disable
28	Relay Enable
29	Relay Output Hold
30-39	
40	Force ON Relay #1 (Set Reg. 301 Action = Off)
41	Force ON Relay #2 (Set Reg. 310 Action = Off)
42	Force ON Relay #3 (Set Reg. 319 Action = Off)
43	Force ON Relay #4 (Set Reg. 328 Action = Off)
44-65	N/A
66	Reset Menu
67	Control Menu
68	Stop Display Scan
69	Display Next PV
70	Display Previous PV

Key/DI	Reg. No
F1	201
F2	202
F3	203
F4	204
DI-1	205
DI-2	206
DI-3	207
DI-4	208
DI-5	209
DI-6	210
DI-7	211
DI-8	212

DO	Reg. No.
DO-1	213
DO-2	214
DO-3	215
DO-4	216
DO-5	217
DO-6	218
DO-7	219
DO-8	220

Digital Outputs Settings (40213 – 40220)

Integer	Function
0	Disable Function
1	Alarms Acknowledged
2	N/A
3	N/A
4	N/A
5	N/A
6	Maximum Value Reset
7	Minimum Value Reset
8	Maximum/Minimum Value Reset
9	N/A
10	N/A
11	Alarm 1 Active
12	Alarm 2 Active
13	Alarm 3 Active
14	Alarm 4 Active
15	Alarm 5 Active
16	Alarm 6 Active
17	Alarm 7 Active
18	Alarm 8 Active

Table 3. Relay Configuration Mode (40301, 310, ... 364)

Bit(s)	15 – 10	9 – 8	7	6	5 – 3	2 – 0	Relay Registers
Function	PV Assignment	Comm. Break	Fail-Safe	N/A	Action	N/A	
0x0	PV 1	00 No action	0 Normal	0	000 Automatic reset	000	Rly1: 301
0x1	PV 2	01 OFF	1 Failsafe		001 Auto & Manual reset		Rly2: 310
0x2	PV 3	10 ON			010 Latching		Rly3: 319
0x3	PV 4				011 Latching with Clear		Rly4: 328
0x4	PV 5				100 Pump Alternation		Rly5: 337
0x5	PV 6				101 Sample		Rly6: 346
0x6	PV 7				110 Unused		Rly7: 355
0x7	PV 8				111 Off		Rly8: 364
0x8	PV 9						
0x9	PV 10						
0xA	PV 11						
0xB	PV 12						
0xC	PV 13						
0xD	PV 14						
0xE	PV 15						
0xF	PV 16						
0x10	Math Ch 1						
0x11	Math Ch 2						
0x12	Math Ch 3						
0x13	Math Ch 4						
0x14	Multi Source						

Table 4. 4-20 mA Output Data Source (40402)

Integer	Function
0	N/A
1	N/A
2	N/A
3	N/A
4	N/A
5	N/A
6	Set Point 1
7	Set Point 2
8	Set Point 3
9	Set Point 4
10	Set Point 5
11	Set Point 6
12	Set Point 7
13	Set Point 8
14-21	N/A

Integer	Function
22	PV 1
23	PV 2
24	PV 3
25	PV 4
26	PV 5
27	PV 6
28	PV 7
29	PV 8
30	PV 9
31	PV 10
32	PV 11
33	PV 12
34	PV 13
35	PV 14
36	PV 15
37	PV 16
38	Math Ch 1
39	Math Ch 2
40	Math Ch 3
41	Math Ch 4

Table 5. Input Identification Configuration (49901 – 49904)

Firmware Identifier

Byte	Product
039	PD6000 Series
063	PD7000 Series
065	PD6060, 64/6500 Series
070	PDD6000 Demo
071	PD6100 Series
088	PD6080 Series

Main Board Configuration

Byte	Function
000	Process Decimal
100	Process Feet & Inch
200	Pulse Totalizer (Reserved)
300	Process Totalizer (Reserved)
400	Onboard RS-485 Decimal
500	Onboard RS-485 Feet & Inch
600	Reserved
700	Reserved

Input Board Configuration

Byte	Function
00	Reserved

Note: Each register holds two ASCII characters.

Example: PD6080 Modbus Scanner (SFT088)

49901: 0x3038 = 08

49902: 0x3830 = 80

49903: 0x3030 = 00

Table 6. Product Number & Description (49917)

Integer	Description
6000	Process
6060	Dual Process
6080	Modbus Scanner Decimal, Dual Process
6081	Modbus Scanner F&I, Dual Process
6083	Modbus Scanner, Dual Pulse (Reserved)
6088	Modbus Scanner, Onboard RS-485
6089	Modbus Scanner F&I, Onboard RS-485
6100	Strain Gauge/Load Cell
6110	Strain Gauge/Load Cell Batch Controller (Reserved)
6200	Process Totalizer
6210	Process Batch Controller
6262	Dual Process Totalizer
6272	Dual Process Batch Controller (Reserved)
6300	Pulse Totalizer
6310	Pulse Batch Controller
6363	Dual Pulse Totalizer
6373	Dual Pulse Batch Controller (Reserved)
6465	Dual High Voltage and Current
7000	Temperature

Table 7. Allowable ASCII Character Set (47701 – 47940: Units & Tags)

Display	HEX	ASCII
0	30	0
1	31	1
2	32	2
3	33	3
4	34	4
5	35	5
6	36	6
7	37	7
8	38	8
9	39	9

Display	HEX	ASCII
A	41	A
B	42	B
C	43	C
c	63	c
D	44	D
E	45	E
F	46	F
G	47	G
G	67	g
H	48	H
H	68	h
I	49	I
I	69	i

Display	HEX	ASCII
J	4A	J
K	4B	K
L	4C	L
M	6D	m
N	6E	n
O	4F	O
O	6F	o
P	50	P
Q	71	q
R	72	r
S	53	S
T	74	t
U	75	u

Display	HEX	ASCII
V	56	V
W	77	w
X	58	X
Y	59	Y
Z	5A	Z
-	2D	-
/	2F	/
]	5B]
[5D	[
=	3D	=
SP	20	SP
<	3C	<

Table 8. Math 1 Functions (C1-C4: 47567 - 47570)

Integer	Function	Math Operation (Examples) (P = Adder, F = Factor)
0	Addition	$(PV1+PV2+P)*F$
1	Difference	$(PV1-PV2+P)*F$
2	Absolute Diff	$((Abs(PV1- PV2)+P)*F$
3	Average	$((((PV1+PV2)/2)+P)*F$
4	Multiply	$((PV1*PV2)+P)*F$
5	Divide	$((PV1/PV2)+P)*F$
6	Max PV	Max value of all selected PVs
7	Min PV	Min value of all selected PVs
8	Draw	$((PV1/PV2)-1)*F$
9	Weighted average	$((PV2-PV1)*F)+PV1$
10	Ratio	$(PV1/PV2)*F$
11	Concentration	$(PV1/(PV1+PV2))*F$
12	Math 2	Math on other math channels

Table 9. Math 2 Functions (47571 – 47574)

Integer	Function	Math Operation (Examples) (P = Adder, F = Factor)
1	Addition	$C3 = (C1+C2+P)*F$
2	Difference	$C4 = (C1-C2+P)*F$
3	Absolute Diff	$C3 = ((Abs(C1- C2)+P)*F$
4	Average	$C4 = (((C1+C2)/2)+P)*F$
5	Multiplication	$C3 = ((C1*C2)+P)*F$
6	Division	$C4 = ((C1/C2)+P)*F$

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