

WMI Magnetic Level Indicators

Model WMI

WIKA Datasheet WMI

Applications

WMI Series Magnetic Level Indicators are suitable for most industrial and commercial applications including:

- Refinery and chemical industries
- Energy and power plant technology
- Feed water heaters and boilers
- Oil and gas industries
- Offshore exploration and drilling
- Pipeline compressor applications
- Pulp and paper
- Food and beverage
- Gas plants
- Pharmaceutical

Product Features

- The WMI Series Magnetic Level Indicators can easily be combined with our WLC series chamber for redundant level measurement.
- Temperature ranges from -320oF to 1,000oF or -195oC to 537oC
- Pressures from full vacuum to 5,000 psi or 344 bar
- Specific gravities as low as 0.35
- Measuring ranges from 6" to 20' standard, longer lengths available
- Dependable indicator with bold scale for ease in reading from 200'
- Interface capability
- Floats built per application provides better indicator accuracy
- Dependable level indication for years with little to no maintenance required
- Optional accessories include:
 - Magnetostrictive transmitter
 - Reed chain transmitter
 - Dry contact switch
 - Reed switch
 - Built in thermocouple or RTD
 - WIKA pressure gauges



WMI

Specifications

Materials of Construction

304/L, 316/L, 317, 321, 347 SS, Hastelloy B or C, Alloy 20, Inconel 625, 254 SMO, PVC, Teflon

Process Connections

ANSI flanges, male or female threaded, O-let, weld ends

Connection Sizes

From 1/2" to 8" standard

Available Outlets

Extruded, saddled or welded T's

Vent and Drain Options

Flat caps, dome caps, weld neck or slip-on flanges, weld ends, male or female threaded, reducing flanges, valves per specification

Indicator

Red and white / yellow and black flags - ruler in feet/inches, metric, %, or special

Additional Options

High temperature insulation, cryogenic insulation, steam tracing, electrical heat tracing, reinforced flange supports, liquid gas chamber construction

Options

Chamber / Flange Rating

From 150# to 2500#

Unit of Measure

Imperial or Metric

Indicator Length

6" to 20' or more

Center to Center Length

Similar or different from indicator
Upper or lower mounting

Body Material

Stainless with Stainless flange or carbon steel flange,
Hastelloy, Alloy 20, Inconel, PVC, Teflon and more

Side Connection Type

Flange:

- Weld neck w/raised face
- Slip on w/raised face
- Weld neck RTJ
- Lap joint

O-let:

- Soc-o-let
- Thread-o-let
- Weld-o-let

Various:

- Threaded coupling
- Socket weld coupling
- Socket weld nipple
- Threaded nipple
- Butt weld connection
- Other (specify)

Side Connection Size

Ranges from no connection, 1/2" to 8" or more

Outlet type

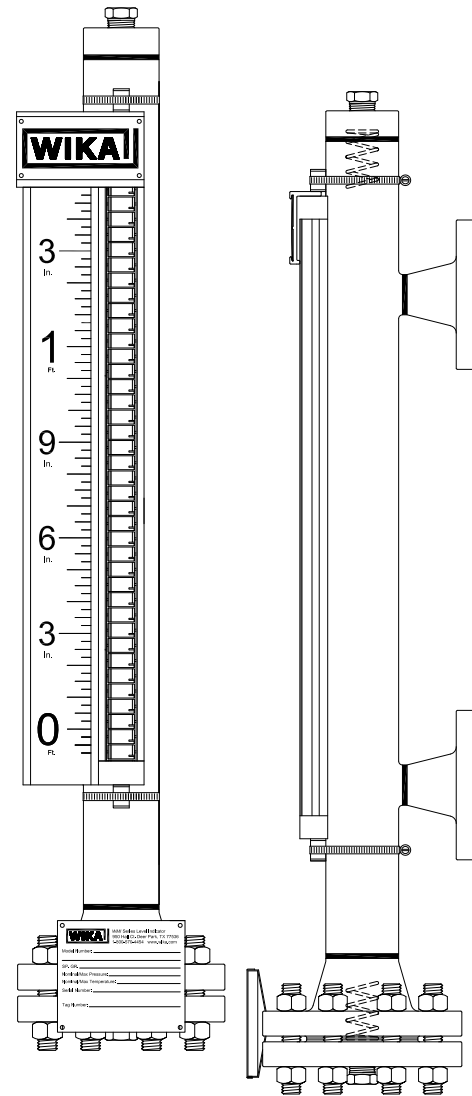
Extruded, O-let, saddled or welded-T

Vent and Drain Size

Ranges from no vent or drain connection, 1/2" to 8" or more

Flat or Dome Cap Options:

- NPT Hex Plug
- Threaded coupling
- Socket weld coupling
- Nipple for butt welding
- Threaded male nipple
- Welded flange
- Valve



Weld Neck or Slip-On Flange Options:

- No mating flange for direct process connection
- Mating flange with NPT hex plug
- Mating flange with socket weld coupling
- Mating flange with nipple for butt welding
- Mating flange with threaded male nipple
- Mating flange with welded flange
- Mating flange with valve

Other connections options can be engineered per application

Indicator

standard with imperial scale, metric scale, percentage or other. Cryogenic available.

- Yellow/Black Flags
- Red/White Flags

Options

Chamber and flange insulations from -300°F to 999°F.
Steam tracing, heat tracing and gussets for flange support also available

WMI Selection Guide

Field no.	Code	Description	Field no.	Code	Description
1		Chamber Rating	6 <small>Contued</small>		Side Connection Type (Qty.) -Choose one code
	150	150#			Various Options: Specify Qty. in ____
	300	300#		TC_	Threaded coupling
	600	600#		SC_	Socket weld coupling
	900	900#		SN_	Socket weld nipple
	15C	1500#		TN_	Threaded nipple
	25C	2500#		BW_	Butt weld connection
2		Unit of Measure	OT_	Other, specify in description or for D9 (Dual chamber with 90° connection option)	
	I	Imperial	NSC	No side connection	
3		Indicator Length		Side Connection Size	
	XXXX	i.e. 0044 = 44" (I) or 44mm (M)	00	No side connection	
4		Center to Center Length	05	.5 inch	
	C	Similar to indicator	75	.75 inches	
	N	Differing from indicator (specify in description)	10	1 inch	
	U	Upper mount	15	1.5 inches	
5		Chamber Material	20	2 inches	
	304M	304/304L Stainless steel w/matching flange material	30	3 inches	
	304C	304/304L Stainless steel w/carbon steel flange material	40	4 inches	
	316M	316/316L Stainless steel w/matching flange material	60	6 inches	
	316C	316/316L Stainless steel w/carbon steel flange material	80	8 inches	
	321S	321 Stainless steel	OT	Other, specify in description	
	317S	317 Stainless steel		Outlet Type	
	347S	347 Stainless steel	E	Extruded	
	A254	Alloy 254	S	Saddled	
	HASC	Hastelloy C	W	O-let	
	HASB	Hastelloy B	T	Welded-T	
	ALL2	Alloy 20		Vent Connection -Choose one code	
	INC6	Inconel 625		Flat cap (FC) options:	
		Side Connection Type (Qty.) -Choose one code	FP	FC, with drain, plug	
	Flange Options: Specify Qty. in ____	FT	FC, threaded coupling		
6	WR_	Weld neck raised face	FC	FC, socket-weld coupling	
	SR_	Slip on raised face	FS	FC, nipple for socket welding	
	WJ_	Weld neck RTJ	FW	FC, nipple for butt welsing	
	LJ_	Lap joint	FN	FC, threaded male nipple	
		O-let Options: Specify Qty. in ____	FF	FC, welded flange	
	SL_	Soc-o-let	FV	FC, with valve	
	TL_	Thread-o-let	FB	FC, No vent or drain	
	WL_	Weld-o-let		Weld neck flange (WNF) options:	
		WP	WNF, drain, plug in mating flange		
		WT	Threaded coupling on mating flange to WNF		
		WC	Socket-weld fitting on mating flange to WNF		
		WS	Nipple for socket-welding on mating flange for WNF		
		WW	Nipple for butt-welding on mating flange for WNF		
		WN	Threaded male nipple on mating flange for WNF		
		WF	WNF with mating reducing flange		
		WV	WNF with mating flange and valve		
		WO	WNF no mating flange		
		WB	WNF no vent or drain in mating flange		

WMI Selection Guide

Field no.	Code	Description	Field no.	Code	Description
9 Contued From Pg3	Vent Connection -Choose one code		10 Contued	Drain Connection -Choose one code	
	Dome cap (DC) options:			Flat cap (FC) options:	
	DP	DC, with drain, plug		FP	FC, with drain, plug
	DT	DC, threaded coupling		FT	FC, threaded coupling
	DC	DC, socket-weld coupling		FC	FC, socket-weld coupling
	DS	DC, nipple for socket welding		FS	FC, nipple for socket welding
	DW	DC, nipple for butt welsing		FW	FC, nipple for butt welsing
	DN	DC, threaded male nipple		FN	FC, threaded male nipple
	DF	DC, welded flange		FF	FC, welded flange
	DV	DC, with valve		FV	FC, with valve
	DB	DC, No vent or drain		FB	FC, No vent or drain
	Slip-on flange (SOF) options:			Dome cap (DC) options:	
	SB	SOF, No vent or drain in mating flange		DP	DC, with drain, plug
	SP	SOF, drain, plug in mating flange		DT	DC, threaded coupling
	ST	Threaded coupling on mating flange to SOF		DC	DC, socket-weld coupling
	SC	Socket-weld fitting on mating flange to SOF		DS	DC, nipple for socket welding
	SS	Nipple for socket-welding on mating flange for SOF		DW	DC, nipple for butt welsing
	SW	Nipple for butt-welding on mating flange for SOF		DN	DC, threaded male nipple
	SN	Threaded male nipple on mating flange for SOF		DF	DC, welded flange
	SF	SOF with mating reducing flange		DV	DC, with valve
SV	SOF with mating flange and valve	DB	DC, No vent or drain		
SO	SOF no mating flange	Slip-on flange (SOF) options:			
OT	Other, specify in description	SB	SOF, No vent or drain in mating flange		
10	Drain Connection -Choose one code		SP	SOF, drain, plug in mating flange	
	Weld neck flange (WNF) options:		ST	Threaded coupling on mating flange to SOF	
	WP	WNF, drain, plug in mating flange	SC	Socket-weld fitting on mating flange to SOF	
	WT	Threaded coupling on mating flange to WNF	SS	Nipple for socket-welding on mating flange for SOF	
	WC	Socket-weld fitting on mating flange to WNF	SW	Nipple for butt-welding on mating flange for SOF	
	WS	Nipple for socket-welding on mating flange for WNF	SN	Threaded male nipple on mating flange for SOF	
	WW	Nipple for butt-welding on mating flange for WNF	SF	SOF with mating reducing flange	
	WN	Threaded male nipple on mating flange for WNF	SV	SOF with mating flange and valve	
	WF	WNF with mating reducing flange	SO	SOF no mating flange	
	WV	WNF with mating flange and valve	OT	Other, specify in description	
	WO	WNF no mating flange	Vent and Drain Size		
	WB	WNF, No vent or drain in mating flange	05	.5 inch V/D Connection	
			75	.75 inch V/D Connection	
			10	1 inch	
			15	1.5 inches	
		20	2 inches		
		25	2.5 inches		
		30	3 inches		
		40	4 inches		
		60	6 inches		
		80	8 inches		
		OT	Other, specify in description or for D9 (Dual chamber with 90° connection option)		
		00	No V/D connection		

WMI Selection Guide

Field no.	Code	Description	Field no.	Code	Description	
12		Indicator	13		Options	
		Yellow/Black Flags Ruler Descriptions				
		IYI Bar graph indicator ruler -Feet inches		T1C	Chamber insulation for temps between 250° and 499° F	
		IYM Bar graph indicator ruler -Metric		T1F	Chamber and flange insulation for temps between 250° and 499° F	
		IYP Bar graph indicator ruler - 0-100%		T2C	Chamber insulation for temps between 500° and 999° F	
		IYS Bar graph indicator - Special		T2F	Chamber and flange insulation for temps between 500° and 900° F	
		IYO Bar graph indicator -No ruler		F11	Cryogenic insulation for temps down to -100° F	
		Red/White Flags Ruler Descriptions		F12	Cryogenic insulation for temps down to -200° F	
		IRI Bar graph indicator ruler -Feet inches		F13	Cryogenic insulation for temps down to -300° F	
		IRM Bar graph indicator ruler -Metric		STT	Steam tracing	
		IRP Bar graph indicator ruler - 0-100%		HTT	Heat tracing	
		IRS Bar graph indicator - Special		FLS	Gussets for flange support	
		IRO Bar graph indicator -No ruler				
		Cryogenic:				
		ICI Bar graph Cyro ruler -Imperial				
		ICM Bar graph Cyro ruler -Metric				
		ICP Bar graph Cyro ruler -Percentage				
		ICO Bar graph Cyro -No ruler				
	ICS Bar graph Cyro -Special					

Note: The following process conditions must be included with the model code in order for WIKA to provide you a quote.

Specific Gravity: _____ **Operating Temperature:** _____ **Operating Pressure:** _____

MODEL	Chamber rating	Unit of measure	Indicator length	Center of center length	Chamber material	Side connection type (Qty.) - Choose one code	Side connection size	Outlet type	Vent connection	Drain connection	Vent & drain size	Indicator	Options
WMI	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Field no.	1	2	3	4	5	6	7	8	9	10	11	12	13

