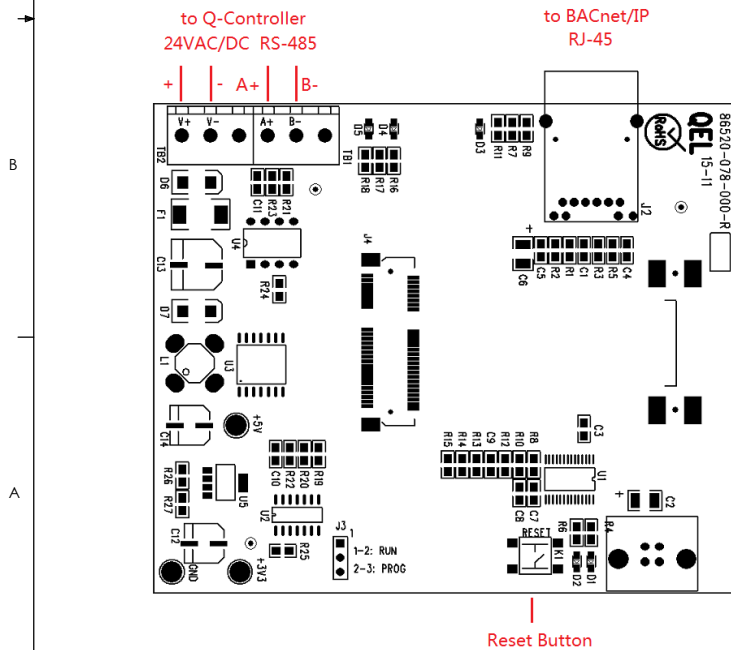
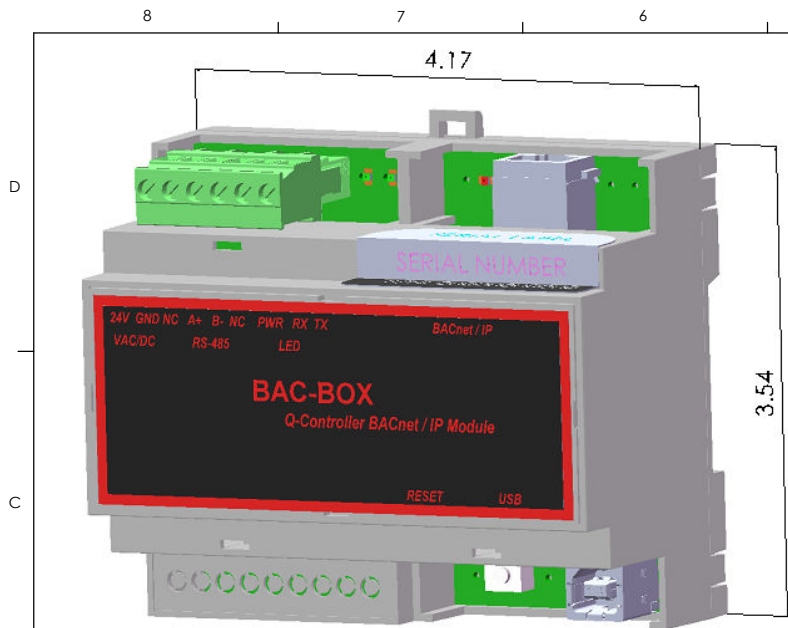




REVISIONS				
ECN	REV.	DESCRIPTION	DATE	APPROVED
1061	1	FIRST RELEASE	2016-04-28	XY
1083	A	CHANGE TO BAC-BOX	2016/06/01	XY

BAC-Box (Q-Controller BACnet Converter):

The BAC-Box allows Q-Controller to communicate on a BACnet network. The BAC-Box works as a translator between the two networks allowing Q-Controller Gas System (gas concentrations, switch status and relay status) to show up as individual BACnet-compliant devices on a BACnet /IP network. It supports up to 192 AI objects, 32 AO objects, 16 BI objects and 64 BO objects for a Q-Controller Gas System.

BACnet Application Specific Controller (B-ASC)

List all BACnet Interoperability Building Blocks Supported (Annex K):

- BIBB-Data sharing-ReadProperty-B (DB-RP-B)
- BIBB-Data sharing-ReadPropertyMultiple-B (DB-RPM-B)
- BIBB-Data sharing-WriteProperty-B (DB-WP-B)
- BIBB-Device Management-Device Communication Control-B (DM-DCC-B)
- BIBB-Device Management-TimeSynchronization-B (DM-TS-B)
- BIBB-Device Management-UTCTimeSynchronization-B (DM-UTC-B)

Standard Object Types Supported:

- Device Object
- Analog Input Object
- Analog Output Object
- Binary Input Object
- Binary Output Object

Data Link Layer Options: ☒ BACnet IP, (Annex J)

Device Address Binding:

- Is static device binding supported? (This is currently necessary for two-way communication with MS/TP slaves and certain other devices.) ☐ Yes ☒ No

Networking Options:

- Does the BBMD support registrations by Foreign Devices? ☐ Yes ☒ No
- Does the BBMD support network address translation? ☐ Yes ☒ No

Network Security Options:

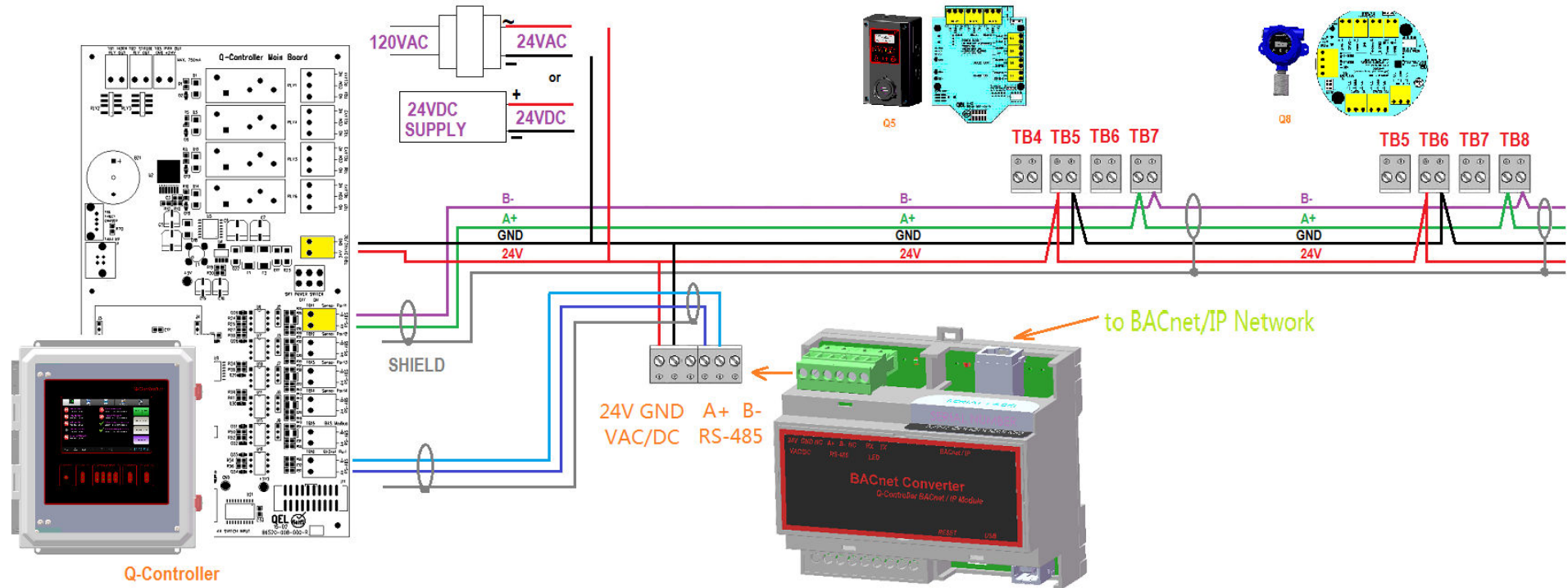
- Non-secure Device - is capable of operating without BACnet Network Security

Character Sets Supported: ☒ ANSI X3.4

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	QUATROSENSE ENVIRONMENTAL LTD.		
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	XY	16-04-28	TITLE: BAC-BOX Installation Drawing		
			CHECKED					
			ENG APPR.					
			MFG APPR.					
			Q.A.					
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:			SIZE DWG. NO. REV B 86550-009-000 A		
		MATERIAL						
		FINISH						
	NEXT ASSY	USED ON						
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:2 WEIGHT: SHEET 1 OF 2		

Q-Controller & BAC-Box Connection



- Note:
1. The power supply can be 24VAC or DC as every device uses a half-wave rectifier in the drawing
 2. The power negative may be grounded or floating
 3. Don't mix full wave rectifiers device with this system
 4. Before power up, the polarity of the 24VAC power supply should be checked carefully, reversing polarity on the network will cause the RS-485 driver chips blow up

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		DIMENSIONS ARE IN INCHES		DRAWN				TITLE: BAC-BOX Installation Drawing			
		TOLERANCES:		CHECKED							
		FRACTIONAL: ±		ENG APPR.							
		ANGULAR: MACH: ± BEND: ±		MFG APPR.							
		TWO PLACE DECIMAL ±		Q.A.				SIZE DWG. NO. REV B 86550-009-000 A			
		THREE PLACE DECIMAL ±		COMMENTS:							
		INTERPRET GEOMETRIC TOLERANCING PER:									
		MATERIAL									
		FINISH									
NEXT ASSY		USED ON									
APPLICATION		DO NOT SCALE DRAWING									