240/241 Series BACnet

Quick Install Guide

This Quick Install Guide is applicable for InnovaMass® and InnovaFlo® models: 240 and 241.

A copy of this Quick Install Guide, the 240/241 Series BACnet manual and the 240/241 Series product manual are included on the digital communication information CD included in your shipment. The information is also available for download.

Connecting to a BACnet Network

You will need the following to connect BACnet to your device:
1. Power on the 240 or 241 instrument.
2. Press enter button and type in the factory password 16363 (use up and down arrows to enter the numbers).
   Note: If your meter was ordered with BACnet steps 3 through 8 would have already been configured for you - skip to step 9.
3. Use the right ▶ button to navigate to the Diagnostics Menu.
4. Press enter then the right ▶ button.
5. Use the down button ▼ to navigate to the *Config Code* screen.
6. After reaching Config Code screen, press the right ▶ to navigate to *Comm. Type* screen.
7. Change the Comm. Type to BACnet and press enter.
   Note: BACnet will enable Baud Rate and MAC address screens on the Output Menu.
8. Press Exit twice to reach Diagnostics Menu back
9. Navigate to the Output Menu by using right ▶ or left ◀ buttons.
10. Press down arrow ▼ button until you reach the Baud Rate and MAC address screens.
11. Change the required settings and press Exit then the Enter button to save the configuration.
12. Reboot the vortex meter by powering off and on

   Note: The 240/241 Series supports 9600, 19200, and 38400 baud rates.
   MAC address range is 0-127

Object Description

Object Instance	Object Name	Unit	Description
1	Volume Flow	cubic-‐feet-‐per-‐second, cubic-‐feet-‐per-‐minute, us-gallons-per-minute, imperial-‐gallons-‐per-‐minute, liters-‐per-‐minute, liters-‐per-‐second, liters-‐per-‐hour, cubic-‐meters-‐per-‐second, cubic-‐meters-‐per-‐minute, cubic-‐meters-‐per-‐hour	This AI object is used to measure volume flow.

2	Mass Flow	pounds--mass--per--second, grams--per---second, kilograms--per--second, kilograms--per--minute, kilograms--per--hour,	This AI object is used to measure mass flow.
		pounds--mass--per--minute, pounds--mass--per--hour, tons--per--hour, grams---per--second , grams---per--minute	
3	Temperature 1	degrees-Celsius, degrees-Kelvin, degrees-Fahrenheit	This AI object measures Temperature in one of the given Units.
4	Temperature 2	degrees-Celsius, degrees-Kelvin, degrees-Fahrenheit	This AI object measures Temperature in one of the given Units. Note: This object is only valid for an EMS type meter.
5	Pressure	pounds--force--per--square--inch, inches--of--water, inches--of--mercury, millimeters---of--mercury, bars, millibars, pascals, kilopascals	This AI Object measures the Pressure of the fluid.
6	Density	kilograms--per--cubic--meter	This AI Object measures the Density of the fluid.
7	Energy Flow	Kilowatts, Horsepower, btus--per--hour,, kilo--btus--per--hour, megawatts	This AI Object measures the Energy Flow in the fluid. Note: This object is only valid for an EMS type meter.
8	Totalizer 1 & Totalizer 2	If Totalizer selection for Mass measure – pounds--mass--per--second, grams---per--second, kilograms--per--second, kilograms--per--minute, kilograms---per---hour, pounds--mass--per--minute, pounds--mass--per--hour, tons--per--hour, grams--per--second , grams--per--minute	An electronic counter which records the total accumulated flow since the last time the counter was reset.