ModQ SENTRY

C1D2 Non-Incendive Modbus Flow Totalizer

ENHANCE EXISTING TURBINE METERS WITH DIGITAL READOUT & MODBUS CONNECTIVITY

QUICK SETUP FROM LOCAL LCD AND PUSH BUTTONS

BATTERY POWERED FOR STANDALONE OPERATIONS

DAILY MANAGEMENT FOR FLOW & TOTALS



FEATURES

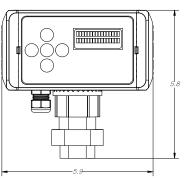
- Local display with, flow rate, totalizer and modbus settings
- Integrates with industry standard turbine meters
- Hazardous location classified for Class1 Div2 Non-Incendive (pending)
- Local pushbuttons for configuration
- Modbus serial (RS485) output to integrate with PLC/SCADA/DCS
- Externally and/or battery powered with auto switch over
- Real-Time-Clock with battery backup
- 1" female NPT standard swivel coupling with 2 pin connector inductive type turbine meters
- Configurable contract hour with real-time clock & battery backup
- 32 day built-in local data historian/backup storage
- Settable K Factor from local interface
- Weathertight rugged enclosure for outdoor operation
- Easy to install and maintain
- Configurable volume and time units

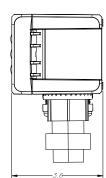
INDUSTRIES

- Oil and Gas
- Water & Wastewater
- Gas Utility
- Chemical
- Power

- Food & Beverage
- Aerospace
- Pharmaceutical
- Metals and Mining
- Pulp & Paper

DIMENSIONAL DRAWING





ELECTRICAL CONNECTIONS





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TECHNICAL SPECIFICATIONS

Operating Temp

-40°C to 80°C (-40°F to 176°F)

LCD Display: -20°C to 70°C (-4°F to 158°F)

Input

Magnetic pickup, pulsed input

Sensitivity selector for magnetic pickup 2kHz response high gain mode (5mV sensitivity) 4kHz response low gain mode (20mV sensitivity)

Dry contact pulsed input

LCD & Pushbuttons

32 character display with pushbuttons

Settable K factor, contract hour, etc.

Displays totals, flow rate, and status information

Output

Modbus RTU RS485 serial 2 wires Pulse output (open collector/pull down)

Real Time Clock

Battery backed up real time clock with coin size battery model 2032

Mechanical Specifications

Connection Fitting: 316SS, 1" NPT Swivel Union Mating union for direct mount to turbine meter

Enclosure:

High strength & flame retardant Polycarbonate

Magnetic pickup connector: Standard 2-pin circular connector

Humidity

0% – 100% condensing

Power

Battery: "D" cell lithium battery Field replaceable Class 1 Div 2

JK

External: 6-36Vdc, 1mA current draw

Battery Life

(standalone operations w/o Modbus)

LCD ON: 4 years LCD OFF: 6.5 years **Modbus Mapping**

Flow totals (today, yesterday, 32 day log)

Instantaneous flow rate

Weight

2lbs (0.9kg) - Without a turbine

Non-Incendive Approval (pending)

Class 1 Division 2, Temp Code T3, Groups C&D. Conforms to UL Std. 913, Certified to Can/CSA Std C22.2 No. 157

Internal Diagnostics

Battery voltage, error conditions

2 Pin Military Connector



STANDARD CONFIGURATION ORDER CODES

ORDER CODE

ModQ-1BIS-CABLE:

Modbus flow meter with battery, 2 pin connector, RS485 serial & pulse output

