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
**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

**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
  - OR
  - External: 6-36Vdc, 1mA current draw

**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**

<table>
<thead>
<tr>
<th>ORDER CODE</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>ModQ-1BIS-CABLE:</td>
<td>Modbus flow meter with battery, 2 pin connector, RS485 serial &amp; pulse output</td>
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