UNIVERSAL® Flow Monitors

Vortex Shedding Flowmeter for Continuous or Batch Water Add on Concrete Trucks

Description
This flowmeter is made for water and low viscosity fluids compatible with materials of construction. Features:
• Maximum flow rate of 50 GPM
• Designed for monitoring water add on concrete trucks
• Plastic end connections with Brass insert
• Pulse out or 4-20 mA output
• Batch (total) mode or rate for continuous mix
• Solid state relay can be configured as alarm
• No moving parts to clog or wear
• 1 1/2% accurate
• 3-digit LED display option
• Galons or Liters

User-Configurable Options
Features that are selectable
• Solid state relays as (N.O. or N.C.)
• Configure one solid state relay as pulse out
• Engineering units (GPM, LPM)

Electrical Specifications
• Input Power: 10 - 30 VDC @ 80 mA 3 wire
• Electrical Connection
Pin Connector (standard)
Weather pack

Material Specifications
Flow body of Brass and Polysulfone with Viton® seals.
Bluffs made of brass PEEK sensor.

Viton® is a registered trademark for DuPont Performance Elastomers.
**How To Order** Select the appropriate symbols to build a model code:

### MODEL CODES

<table>
<thead>
<tr>
<th>SERIES</th>
<th>SYMBOL=FEATURE</th>
<th>CABLING</th>
<th>OUTPUT AND DISPLAY</th>
<th>ORIENTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CX8</td>
<td>M6 = Brass with Polysulfone endcaps</td>
<td>C1* = 5 pin connector only C7 = 4 feet of 3-wire cable added to the pin connector terminating in a PG7 &quot;weather pack&quot; connector</td>
<td>D3* = Pulse out with 3 digit display of total D1 = 4-20 mA out with 3 digit of rate display D4E10 = pulse out no display D4E1 = 4-20 mA out with no display</td>
<td>N2* = Flow up N3 = Flow left N1 = Flow right N4 = Flow down</td>
</tr>
</tbody>
</table>

**FACE AND PIN CONNECTOR ORIENTATION WITH FLOW**

- **Flow Direction**

  ![Flow Direction](image)

  - **N1**
  - **N2**
  - **N3**
  - **N4**

**PRESSURE DROP CHARTS**

![Pressure Drop Chart](image)

**ACCESSORY CABLES AVAILABLE FOR PIN CONNECTOR METERS**

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Length in Meters</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CX</td>
<td>5 pin female</td>
<td>1, 3, 10</td>
<td>6241-1M, 6241-3M, 6241-10M</td>
</tr>
</tbody>
</table>
**TOTALIZER WITH PULSE OUTPUT**

**PIN CONNECTOR PINOUTS**

- **WHITE**: NOT USED
- **BROWN**: +24 Vdc POWER SUPPLY
- **GRAY**: FLOW SIGNAL PULSE OUTPUT
- **BLACK**: SUPPLY GROUND (REduNDANT)
- **BLUE**: SUPPLY GROUND

**PIN CONFIGURATION:**
- 1: +24 VDC power supply
- 2: not used
- 3: supply ground
- 4: supply ground
- 5: flow signal pulse output

Note: There is an internal 10K Ω pull-up resistor on the pulse output line (pin 5).

**FLOW RATE WITH 4-20MA OUTPUT**

- **WHITE**: 4-20 mA FLOW SIGNAL OUT
- **BROWN**: +24 Vdc SUPPLY
- **GRAY**: FLOW RELAY CONTACT
- **BLACK**: FLOW RELAY CONTACT
- **BLUE**: SUPPLY GROUND

To turn flow relay contact from a switch to a pulse out by externally connecting a 2K - 10K Ohm pull up resistor from power supply to one flow relay contact and connecting the other flow relay contact to supply ground.

**CONFIGURATION:**
- 1: +24 VDC power supply
- 2: 4-20 mA flow signal out
- 3: power supply ground
- 4: flow relay contact
- 5: flow relay contact