Description
This flowmeter is for monitoring water add on concrete trucks. It operates in batch (total) mode or rate for continuous mix.
- No moving parts to hang up
- 1 1/2% accuracy
- Not destroyed by compressed air
- 3 digit display optional

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

Material Specifications
Flow bodies of brass or Polysulfone with PVDF sensors and Viton® seals standard.

User-Configurable Options
- Engineering units (GPM, LPM)

Instrument Specifications
- Max flow 50 GPM
- Flow Accuracy: ±1 1/2% of indicated total
  1 1/2% Full Scale for rate
- Turndown: 10:1
- Operating Pressure
  200 PSI (13.6 bar) Polysulphone,
  300 PSIG (20 Bar) Brass
- General
  Response time: 450 ms
  Fluid temperature limits: 35-150°F (2-66°C)
  continuous use.
  Enclosure rating: IP 65, Type 1, 3, 4, 12 and 13
- Pipe Connections:
  1 inch NPT female
- Pulse or 4-20 mA rate output
- Mounting lugs integral to body
- Back pressure of 10 PSIG required

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>CPM8</td>
<td>-M1* = Brass</td>
<td>C1* = 5 pin connector only</td>
<td>D3* = Pulse out with 3 digit display of total</td>
<td>N2* = Flow up</td>
</tr>
<tr>
<td></td>
<td>-M5 = Polysulfone</td>
<td>C7 = 4 feet of 3-wire cable added to the pin connector terminating in a PG7 &quot;weather pack&quot; connector</td>
<td>D1 = 4-20 mA out with 3 digit of rate display</td>
<td>N3 = Flow left</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>D4E10 = pulse out no display</td>
<td>N1 = Flow right</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>D4E1 = 4-20 mA out with no display</td>
<td>N4 = Flow down</td>
</tr>
</tbody>
</table>

* Indicates this is a standard option for the product. If you leave this position blank, the assumption will be that this is the selection by default.

Example: CPM8-M5 is the same as CPM8-M5C1D3N2

### FACE AND PIN CONNECTOR ORIENTATION WITH FLOW

![Flow Direction with Orientation Options](image)

### PRESSURE DROP

![Pressure Drop Graph](image)
CABLE POSITION N3

MOUNTING LUGS FOR Ø.31 (5/16) BOLTS. (4) PLACES.

CABLE (CONNECTOR) SHOWN AT POSITION N2.

Dimensions in Inches (mm)

<table>
<thead>
<tr>
<th>Body Material</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1</td>
<td>3.13 (79)</td>
<td>2.31 (59)</td>
<td>1.56 (40)</td>
</tr>
<tr>
<td>M5</td>
<td>2.88 (73)</td>
<td>2.50 (64)</td>
<td>2.00 (51)</td>
</tr>
</tbody>
</table>

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>CP</td>
<td>5 pin</td>
<td>1</td>
<td>6241-1M</td>
</tr>
<tr>
<td></td>
<td>female</td>
<td>3</td>
<td>6241-3M</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10</td>
<td>6241-10M</td>
</tr>
</tbody>
</table>
Note that on this option, the flow relay contacts are open collector switches. To get a pulse out, install an external 2-10 K Ohm resistor where indicated.

**TOTALIZER WITH PULSE OUTPUT**

- **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

**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

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.