

UNIVERSAL® Flow Monitors

**Vortex Shedding Flowmeter
and Temperature Transmitter
for Water and Coolant**

CoolPoint™/CalPoint™



Description

This flowmeter is made for water, water based machine coolant, or water/glycol coolant. It has the following features:

- Flow transmitter 4-20 mA (Coolpoint & Calpoint)
- Optional temperature transmitter for 3/4 - 2 inch units (Calpoint only)
- LED digital display
- User configurable alarm set points
- No moving parts to clog or wear
- Certified CSA and CE

Instrument Specifications

- Flow
 - 300 PSIG (20 Bar) operating pressure
 - Visual readout 3 digit, .3 inches high 3 numeral LED
 - Response time: 1.5 seconds to 63% of flow change
 - Alarm 5% FS deadband
 - Accuracy $\pm 2\%$ FS
 - Repeatability $\pm .25\%$
- Temperature
 - Response time 1.8 seconds to 63% of change
 - Alarm $\pm 2\%$ deadband
 - Accuracy $\pm 1\%$ FS
 - Repeatability $\pm .25\%$
 - Readout 4 mA @32°F, 20mA @210°F
- General
 - Fluid temperature limits 35-210°F (2-99°C)
 - Enclosure rating IP 65, Type 1, 3, 4, 12 and 13

User-Configurable Options

Features that are selectable from a menu include:

- Engineering units (GPM, LPM, Fahrenheit or Celsius)
- Selectable alarm state
 - Closed below set point
 - Open below set point
- Set points user selectable
- Flow direction
 - Rotatable control box for 3/4 - 2 inch sizes
 - Rotatable display by opening control box for 1/2 and 1/4 inch

Electrical Specifications

- Output 4-20 mA
- Alarm Output SPST Solid State Relay (NC or NO, selectable)
 - 1/4" & 1/2" $\leq 185^\circ\text{F}$ (85°C) -250 mA,
 - $> 185^\circ\text{F}$ (85°C) -100 mA
 - 3/4" to 2" $\leq 185^\circ\text{F}$ (85°C) -125 mA,
 - $> 185^\circ\text{F}$ (85°C) -50 mA
- Input Power 10 - 30 VDC @ 80 mA
- Electrical Connection
 - 5-Pin DC male micro (Flow Only)
 - 8-Pin DC male micro (Flow & Temperature)

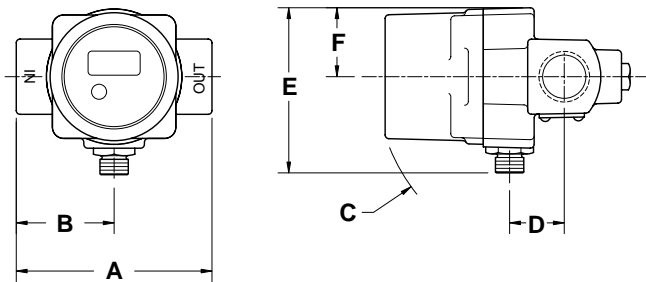
Material Specifications

Wetted parts of brass, Viton and PVDF

MODEL CODE SELECTION

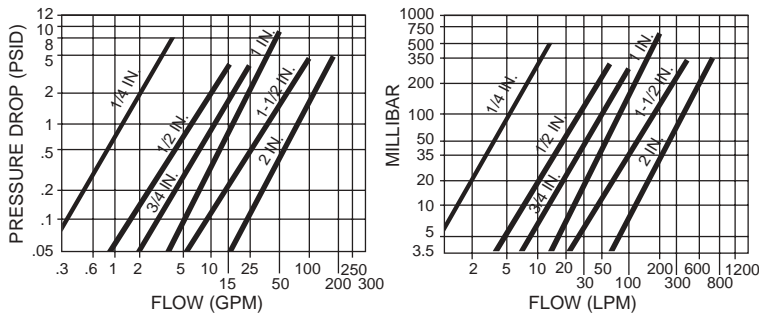
Code	Flow Only	Flow and Temperature	Pipe Size in Inches	Flow Range				Weight	
				GPM		LPM		Lbs	Kgs
				Min	Max	Min	Max		
CP-1/4	x		1/4	0.4	4	2	15	2.8	1.3
CP-1/2	x		1/2	1.2	12	5	45	2.6	1.2
CP-3/4	x		3/4	2.5	25	9	95	6.3	2.9
CT-3/4		x	3/4	2.5	25	9	95	6.3	2.9
CP-1	x		1	5	50	20	190	5.9	2.7
CT-1		x	1	5	50	20	190	5.9	2.7
CP-1.1/2	x		1 1/2	10	100	40	380	13.0	5.9
CT-1.1/2		x	1 1/2	10	100	40	380	13.0	5.9
CP-2	x		2	20	200	75	750	10.5	4.8
CT-2		x	2	20	200	75	750	10.5	4.8

INSTALLATION DRAWINGS



Size	A	B	C	D	E	F
1/4" & 1/2"	3.25 [82mm]	1.62 [41mm]	3.13 [80mm]	.91 [23mm]	2.74 [69mm]	1.15 [29mm]
3/4" & 1"	4.54 [115mm]	2.27 [58mm]	4.04 [103mm]	2.08 [53mm]	4.19 [106mm]	1.78 [45mm]
1 1/2" & 2"	6.82 [173mm]	3.41 [87mm]	4.71 [120mm]	2.80 [71mm]	4.19 [106mm]	1.78 [45mm]

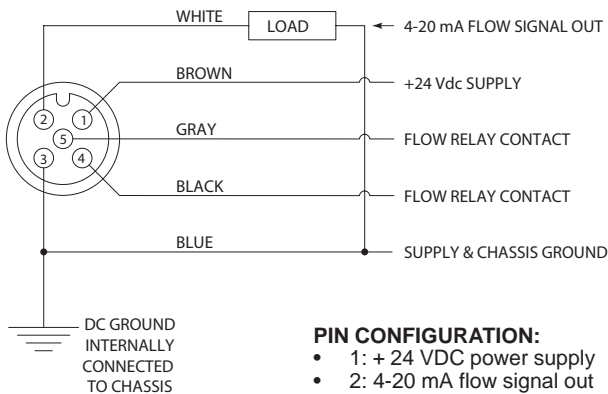
PRESSURE DROP CHARTS



CABLING AVAILABLE with METERS

Series	Description	Length in Meters	Part Number
CP	5 pin female	1	6241-1M-ASSY
		3	6241-3M-ASSY
		10	6241-10M-ASSY
CT	8 pin female	2	6242-2M-ASSY
		5	6242-5M-ASSY
		10	6242-10M-ASSY

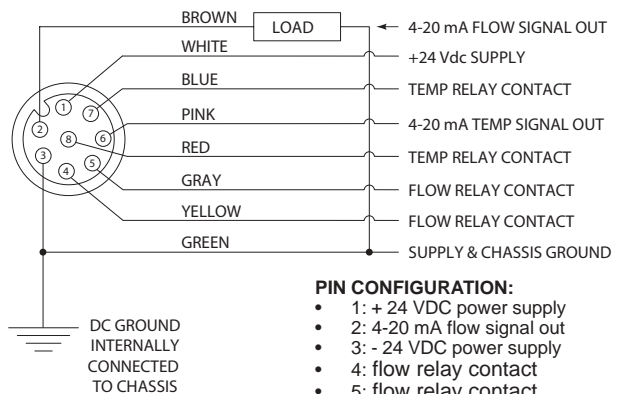
CP (FLOW ONLY)



PIN CONFIGURATION:

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

CT (FLOW AND TEMPERATURE)



PIN CONFIGURATION:

- 1: + 24 VDC power supply
- 2: 4-20 mA flow signal out
- 3: - 24 VDC power supply
- 4: flow relay contact
- 5: flow relay contact
- 6: 4-20 mA temp signal out
- 7: temp relay contact
- 8: temp relay contact