



DESCRIPTION

The CalFlo™ CFTM Thermal Mass Flow and Temperature Meter represents the logical evolution matching modern microprocessor intelligence with over 30 years of thermal flow expertise. With its patent pending auto-self-calibration, the CalFlo™ CFTM is the first truly “set-it and forget-it” flow and temperature solution. No need for expensive on-going calibration as CFTM is designed to maintain accuracy for many years. With standard features such as highly accurate temperature sensing with auto-self-calibration, it becomes the most exciting flow sensor in decades. The Modbus version presents the user with analog flow and temperature, has a totalizing counter, and provides independent high and low adjustable flow and temperature switches. The analog version provides two independent linear 4-20mA outputs for both flow and temperature. A single potentiometer sets the flow range for analog versions.

FEATURES & BENEFITS

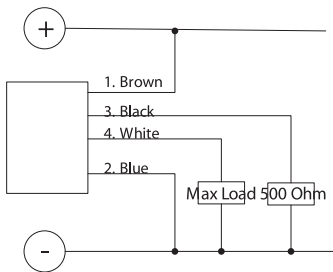
- Standard patent pending auto-calibration (no temperature drift)
- Separate adjustments for temperature and flow (Modbus version)
- Counter totalizer (Modbus version)
- Choice between Modbus RTU Output or 4-20mA
- Encapsulated for vibration resistance
- Withstands up to 1400 psi static pressure
- No moving parts

SPECIFICATIONS

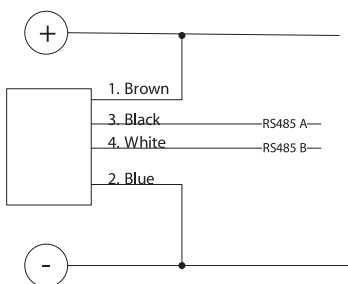
Service	Oil or water-based solutions
Measuring Velocity Range	0.25 -10ft/sec (7.62-350 cm/s), auto-ranging
Set-point Range	5% to 90% of maximum flow
Process Temperature	-4°F to 175°F (-20°C to 90°C)
Pressure	Up to 1,400 PSI (100 bar)
Response Time	Max 5 seconds normal flow
Linearity Deviation	< 5%
Repeatability	< 2%
Protection Class	IP65
Housing Material	PBTP, glassfibre reinforced (Ultradur®)
Sensor Probe	Standard: Stainless Steel (WN1.4305 V2A, 303 Ti) Optional: stainless steel (WN 1.4571 V4A , 316 Ti), Titanium, Hastelloy C4 and Hastelloy C22
Thread	1/2" NPT
Connection	M12-plug, 5-Pin
Operating Voltage	19 to 30VDC, incl. residual ripple
Ambient Temperature	-4°F to 158°F (-20°C to 70°C)
Initial Operation	Approx. 10s after connection of power

CONNECTION DIAGRAM

CFTM-1 (4-20mA Flow & Temp.)



CFTM-2 (RS-485 Modbus RTU)



Ordering Information

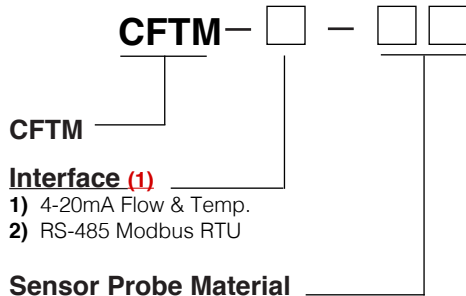
FLO-CORP MODEL NUMBER BUILDER

For Assistance Call **877.356.5463**

Use the diagram below, working from left to right to construct your FLO-CORP Model Number.

Simply match the category number to the corresponding box number.

Example: CFTM-1-SS *CalFlo CFTM™ Thermal Mass Flow and Temperature Meter with 4-20mA Interface and standard 303 Stainless Steel Probe*



CFTM

Interface (1)

- 1) 4-20mA Flow & Temp.
- 2) RS-485 Modbus RTU

Sensor Probe Material

- SS**) 303 Stainless Steel (standard)
- S1**) 316 Stainless Steel
- T1**) Titanium
- H2**) Hastelloy C22® on request
- H4**) Hastelloy C4® on request

Ordering Notes:

- (1) Select the best configuration based on your requirements.