



TRACER[®]_{VM} BASE FLOWMETERS

General Description

The **Tracer_{VM} Base Flowmeter** is a non-display sensor that provides a 0.5 to 3.5V output for process flow rate (0.5 to 4.1V for 1-18 LPM model) and a 0.5 to 4.1V output for process temperature.

Vortex sensor technology is highly accurate and repeatable without moving parts. Flow reading is direction specific. Refer to the arrow on the body for correct installation.



Electrical Connections

Connection to the process is made using standard pipe threads in NPT or BSP from 3/8" through 1-1/2". Flow body materials are corrosion-resistant brass, nylon, anodized aluminum and stainless steel. Options are based on thread size, see page 2 for details.

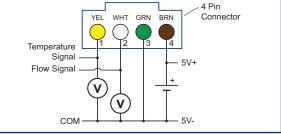
The flowmeter is designed for use in industrial water applications such as injection mold cooling or filter and pump monitoring.

Benefits

- No moving parts for reliable operation
- Flow and Temperature Sensors in one unit for compact installation
- · Quick temperature response from direct media contact
- Economical and versatile construction with corrosion-resistant materials

Specifications

Flow	Size				
1 to 18 LPM	(.3 to 4.8 GPM)	3/8" or 1/2"			
2 to 40 LPM	(.5 to 10.6 GPM)	3/8" or 1/2"			
5 to 100 LPM 10 to 200 LPM	(1.3 to 26.4 GPM) (2.6 to 52.8 GPM)	3/4" or 1" 1" or 1-1/2"			
Flow Accuracy					
Power Power Required					
Temperature Signal Power Consumption Load Impedance		0.5 - 4.1V <50mW			



Pin	Description	Color		
1	Temperature Signal*	Yellow		
2	Flow Signal*	White		
3	Common (0V)	Green		
4	Power Supply (+5VDC)	Brown		
*relative to Pin 3				

Materials

Sensing Element Silicone-Based MEMS Sensor
Seal (sensor to housing) EPDM
Insert PPA 40 GF
3/8" & 1/2" Body Size Glass-Filled Nylon Flow
Body with Brass
or Nylon End Caps
3/4" thru 1-1/2" Body Size Anodized Aluminum
or Stainless Steel Flow Body
Cable 2.9M (9.5ft) 4-conductor for
power and output, ends stripped

Power Supply Requirements

- 5VDC
- Separated from hazardous live circuitry by double or reinforced insulation
- Suggested current limit: 50-100mA

Design and specifications are subject to change without notice.

Form #SF-186 (06.23)

Tracer[®]_{VM} Base Flowmeters **MARTFLOW**

Model Number

VM	3	-	В	-	18H	- B -	P1Q	
Body Size						Flow Range		Options
3/8"NPT 3/8"BSPP	3 3B		B or N		18H	1 to 18 LPM (.3 to 4.8 GPM)	P1 P2	30 psi Pressure Gauge 60 psi Pressure Gauge 100 psi Pressure Gauge 160 psi Pressure Gauge (Pressure gauges not available with AL body material) Delta-Q® Precision Flow Regulator (use with VM3 or VM4 only)
1/2"NPT 1/2"BSPP	4 4B				40H	2 to 40 LPM (.5 to 10.6 GPM)	P3 P4	
3/4"NPT 3/4"BSPP	6 6B		AL or SS		100H	5 to 100 LPM (1.3 to 26.4 GPM)		
1"NPT 1"BSPP	8 8B		AL or SS		100H 200H	5 to 100 LPM 10 to 200 LPM	Q	
1-1/2"NPT 1-1/2"BSPP	12 12B		AL or SS		200H	10 to 200 LPM (2.6 to 52.8 GPM)		

Body Material

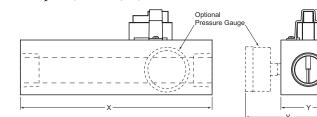
Glass-Filled Nylon
with Brass End Caps
Nylon End Caps
(3/8" and 1/2" only)
Anodized Aluminum Body
Stainless Steel Body
(3/4" and larger only)

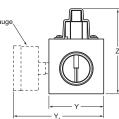
3/8" or 1/2" Body Sizes (Nylon or Brass End Caps) - FLOW DIRECTION 4 Optional Pressure Gauge 86mm 3.38" 71mm 2.8" 165mm 6.5" 43mm 1.7" 6.5" 6.95" with pressure gauge

3/4" thru 1-1/2" Body Sizes Aluminum or Stainless Steel

(pressure gauge not available with AL body)

→ FLOW DIRECTION





Dimensions (mm/inches)							
Body Size	Х	Y	Y ₁	Z			
3/4", 5 to 100 LPM	178/7.0	45.7/1.8	77/3.1	74/2.9			
1", 5 to 100 LPM	178/7.0	45.7/1.8	77/3.1	74/2.9			
1", 10 to 200 LPM	178/7.0	51/2.0	84/3.3	79/3.1			
1-1/2", 10 to 200 LPM	198/7.8	58/2.3	90/3.6	86/3.4			

When using with RJG eDart IA-2 module

Add line item:

Part no. CONN-LBG-4-F

Description: 4-pin Connector added to cable

Directives

Flow sensors are in conformity with these Council directives on the approximation of the laws of the EC member states:

- Low Voltage Directive (2006/95/ED) Standards used: EN 61010-1:2001
- EMC Directive (2004/108/EC) Standards used: EN 61326-1:2006 and

61326-2-3:2006

Smartflow flow sensors fall under Article 3, 3 of PED Directive 97/23/EEC and are not required to be CEmarked according to this directive.