SMARTFLOW® TRACER®vm Base Flowmeters



This is not your standard flowmeter! The TRACER_{VM} raises the bar by reporting Temperature and Flow rates electronically to aid in cooling and process efficiency.

The Tracer®_{vm} **Flowmeter** is a non-display meter that reports flow rates and temperature via voltage signals for connection to data acquisition system or Bluetooth Interface. The TRACER_{vm} is designed for use in industrial water applications such as injection mold cooling and pump monitoring. The flowmeter uses Vortex sensor technology that is highly accurate and repeatable without any moving parts. Connection to the process is made using standard pipe threads in NPT or BSP from 3/8"

through 1-1/2". The flowmeter body materials are corrosion-resistant and can be ordered in brass, nylon, anodized aluminum or stainless steel. These options are based on inlet/thread size, see next page for the complete details.

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



Electrical Connections



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

Specifications

Flow Ranges and	Connection Sizes
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1 to 15 LPM	(.3 to 4 GPM)	3/8" or 1/2"				
2 to 40 LPM	(.5 to 10.6 GPM)	3/8" or 1/2"				
5 to 100 LPM	(1.3 to 26.4 GPM)	3/4" or 1"				
10 to 200 LPM	(2.6 to 52.8 GPM)	1" or 1-1/2"				
Flow Accuracy						
Power Supply 5 VDC +/-5% (external)						
Output Signals						
Flow Signals0.5 to 3.5V (zero at .35V)						
Temperature Signal0.5 - 4.1V						
Power Consumption						
Load Impedance>10kW						

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
	Brass or Nylon End Caps
3/4" thru 1-1/2" Body Siz	e Anodized Aluminum
	or Stainless Steel Flow Body
Cable2.9	M (9.5ft) 4-conductor for power
	and output,ends stripped

Power Supply

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



VM	3	-	В	-	15	-
Body Size						
3/8" NPT	3					
3/8"BSPP	3B		DerN		15H	
1/2"NPT	4		B or N		40H	
1/2"BSPP	4B					
3/4"NPT	6				10011	
3/4"BSPP	6B		AL or 55		1001	
1″NPT	8				100H	
1"BSPP	8B		AL OF 55		200H	
1-1/2"NPT	12		AL or SS		20011	
1-1/2"BSPP	12B				200H	

Body Material			
Glass-Filled Nylon with Brass End Caps	В		
Nylon End Caps (3/8" and 1/2" only)	Ν		
Anodized Aluminum	AL		
Stainless Steel Body	SS		
(3/4" and larger only)			
	Flow Ran	ge	
	1 to 15 LP	M	
	(.3 to 4 GPM)		
	0 / 10 / 5		

40H	2 to 40 LPM (.5 to 10.6 GPM)	
100H	5 to 100 LPM (1.3 to 26.4 GPM)	
200H	10 to 200 LPM (2.6 to 52.8 GPM	

When using with RJG eDart IA-2 module

Add line item: Part no. CONN-LBG-4-F Description: 4-pin COnnector added to cable

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P10			
	Special Ord	ler Options	
P1	30 psi Press	sure Gauge	
P2	60 psi Press	sure Gauge	
P3	100 psi Pres	ssure Gauge	
P4	160 psi Pres (Pressure ga	ssure Gauge auges not available with AL body mate	erial)

Q Delta=Q[®] Precision Flow Regulator (use with VM3 or VM4 only)



3/4" or 1-1/2" Body Sizes (Nylon or Brass End Caps) Aluminum or Stainless Steel (pressure gague not available with AL body)



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	74.2/2.9
1", 5 to 100 LPM	178/7.0	45.7/1.8	77/3.1	74.2/2.9
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

Directives

15H

В

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 Vortex flow sensors fall under Article 3, 3 of PED Directive 97/23/ EEC and are therefore not required to be CE-marked according to this directive.