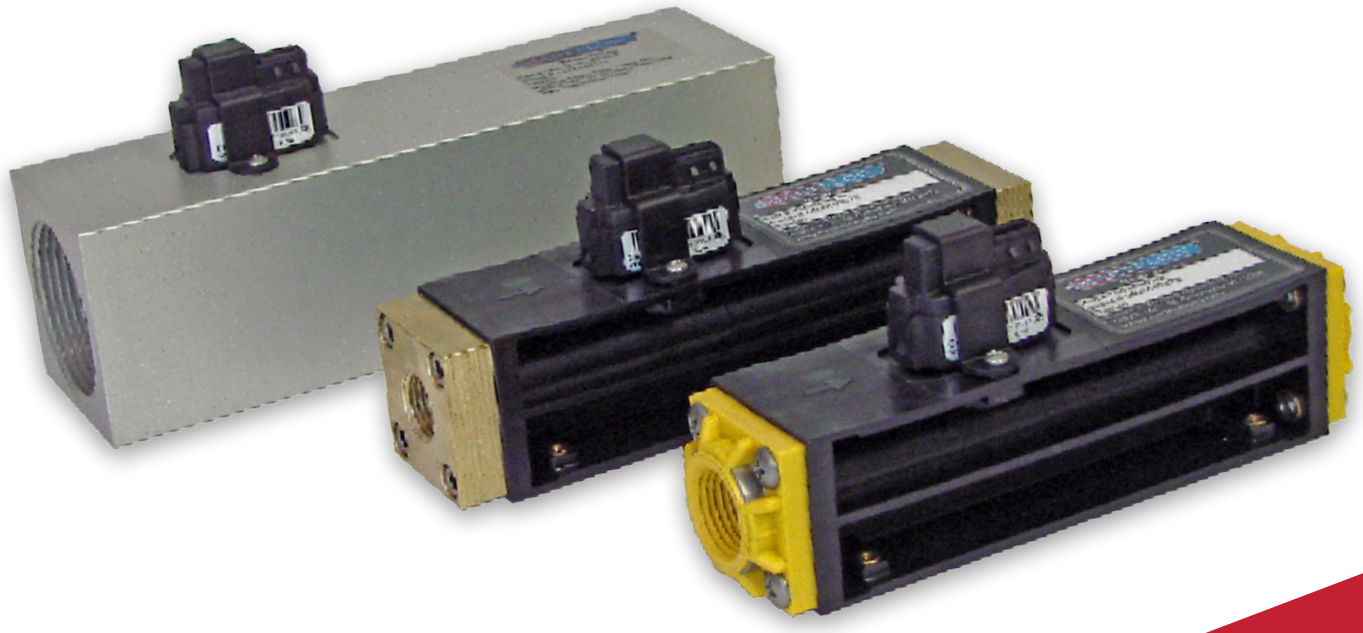
DME



FLOWMETERS

Order Online

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Or Call Our Customer Care Team

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F: 800 401 020
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F: 800 664 82 51 | +49 (0) 2351 437 220
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F: 800 089 735
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F: 800 142 450 | +420 571 611 996
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F: +800 331 1313 | +32 15 40 51 92
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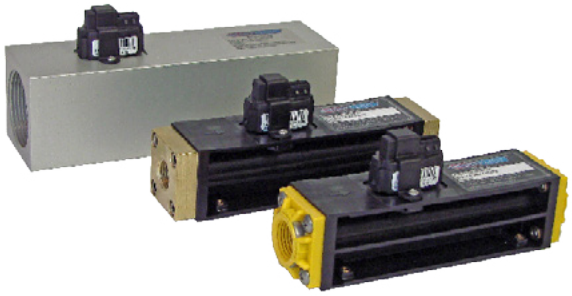
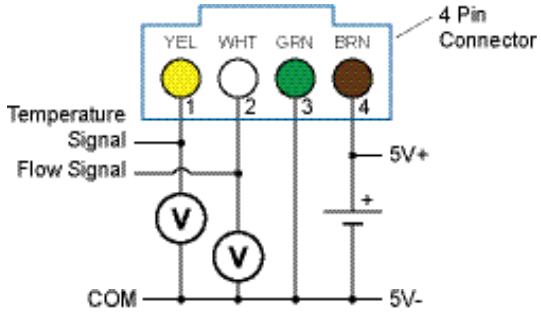
SMARTFLOW® TRACER®VM Base Flowmeters

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.



Electrical Connection



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

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

Specifications

Flow Ranges and Connection Sizes

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..... +/-1.5% of Full Scale
Temperature Range ..... 0°C to 120°C (32°F to 248°F)
Temperature Accuracy ..... +/-0.5°C
Operating Pressure..... 10.3 bar max (150 psi max)

Power

Power Supply..... 5 VDC +/-5% (external)
Output Signals ..... Ratiometric
Flow Signals..... 0.5 to 3.5V (zero at .35V)
Temperature Signal ..... 0.5 - 4.1V
Power Consumption ..... <50mW
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 Size..... Anodized Aluminum
or Stainless Steel Flow Body
Cable ..... 2.9M (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

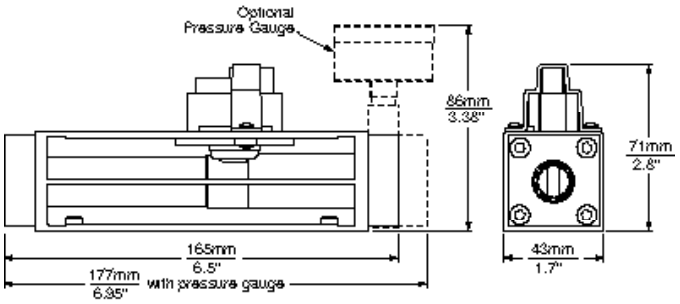
How to order

VM	3	-	B	-	15	-	B
Body Size							
3/8" NPT	3		B or N		15H 40H		
3/8"BSPP	3B						
1/2"NPT	4						
1/2"BSPP	4B						
3/4"NPT	6		AL or SS		100H		
3/4"BSPP	6B						
1"NPT	8		AL or SS		100H 200H		
1"BSPP	8B						
1-1/2"NPT	12		AL or SS		200H		
1-1/2"BSPP	12B						
Body Material							
Glass-Filled Nylon with Brass End Caps			B				
Nylon End Caps (3/8" and 1/2" only)			N				
Anodized Aluminum Stainless Steel Body (3/4" and larger only)			AL SS				
Flow Range							
1 to 15 LPM (.3 to 4 GPM)					15H		
2 to 40 LPM (.5 to 10.6 GPM)					40H		
5 to 100 LPM (1.3 to 26.4 GPM)					100H		
10 to 200 LPM (2.6 to 52.8 GPM					200H		

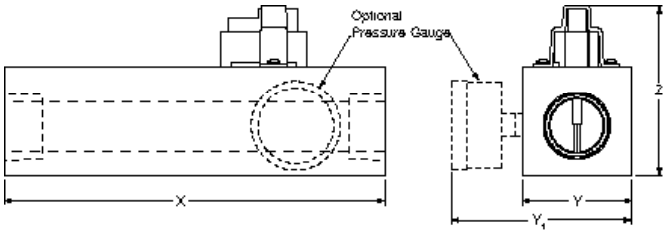
When using with RJG eDart IA-2 module
Add line item: Part no. CONN-LBG-4-F Description: 4-pin COnnector added to cable

ORDER EXAMPLE
VM3BB15HB

3/8" or 1/2" Body Sizes (Nylon or Brass End Caps)



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	Flow	X	Y	Y_1	Z
3/4", 5 to 100 LPM	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

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.

SMARTFLOW® TRACER®VM with Local or Remote USER INTERFACE

No more guessing or misreading confusing manual flow meters. The TRACEvm USER INTERFACE provides flow rates, temperature, and Turbulent Flow in an easy to read digital display.

Tracer$_{VM}$ Flowmeter with User Interface measures liquid flow rate and temperature while providing a selectable analog voltage and programmable switch. Tracer$_{VM}$ Flowmeter with User Interface calculates BTU's per minute and incorporates FCI (Flow Characteristic Indicator) in support of Scientific Cooling^{SM} principles. 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 flow direction for installation.

8 to 28VDC power source is required to supply the flowmeter. Sealed push-buttons configure the flowmeter and switching operations through user-friendly menus.

Separate analog outputs facilitate data collection of temperature and flow rates. The voltage outputs are user-selectable using on-screen menus: 0 to 5 Volts or 0 to 10 Volts.

FCI helps optimize systemic water usage. "TF" on the digital display signifies the presence of Turbulent Flow, or optimum cooling water efficiency. 0, 10, 20 or 30% glycol mix is supported in Turbulent Flow calculations. SPDT switch is programmable for one to four set points: low flow, high flow, low temperature, high temperature or turbulent flow condition. Set points may be turned on or off in any combination to signify an alarm state.

Totalizer function provides volume display from a user-selected start point. (Maximum value is approximately 42,949,000 liters or 11,338,000 gallons.)

English or Metric units for flow and temperature can be changed at any time.

New Reynolds Number Display provides instant turbulant flow information based on water temperature, flow rate, cooling line diameter and glycol content. See page 7 for turbulent flow and value curve information

Applications Tracer flowmeter is suitable for use in industrial water applications such as: injection mold cooling, die cast cooling, filter condition indication and more.

Tracer$_{VM}$ Flowmeter with User Interface is ideally suited for connection to data acquisition systems. These systems give plastics injection molders real-time statistical process control. Annual calibration is recommended for best results. Flow sensor and user interface electronics are paired and must be used together once calibration is complete.

Remote User Interface may be mounted up to 2.9M (9.5ft) away from the Tracer$_{VM}$ Base Model (sensor and flow body without display). Use the "R" designator in the model number for a completely new unit or order a stand-alone Remote User Interface to use with an existing Base Model.

Specifications

Flow Ranges and Accuracy		
Body Size	Range (LPM)	Range (GPM)
3/8" & 1/2"	1 to 15	.3 to 4
3/8" & 1/2"	2 to 40	.5 to 10.6
3/4" to 1"	5 to 100	1.3 to 26.4
1" to 1-1/2"	10 to 200	2.6 to 52.8

Flow Accuracy..... +/-1.5% of Full Scale
Temperature Range ..... 0°C to 120°C (32°F to 248°F)
Temperature Accuracy .....+/-0.5°C
Operating Pressure..... 10.3 bar max (150 psi max)

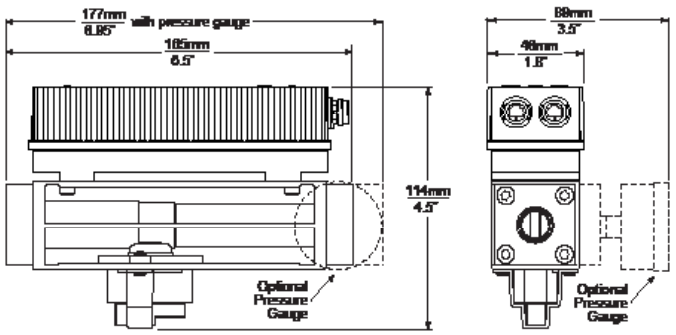
Power

Power Supply..... 8 to 28 VDC (external)
Switch Rating..... 30 VDC/30VAC
Flow and Temp Signals ..... 0 to 5 or 0 to 10 VDC

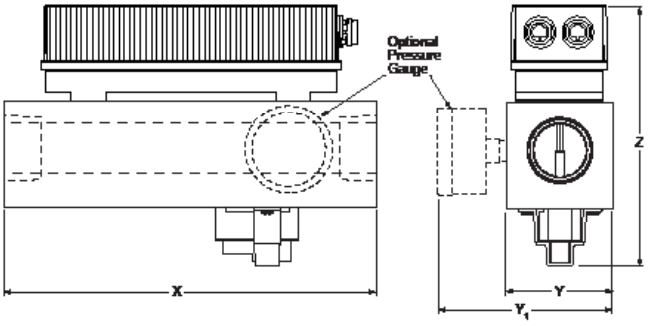
Materials

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 Size..... Anodized Aluminum
or Stainless Steel Flow Body

3/8" or 1/2" Body Sizes (Nylon or Brass End Caps)



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	X	Y	Y_1	Z
3/4", 5 TO 100 LPM	178/7.0	45.7/1.8	77/3.1	117/4.6
1", 5 TO 100 LPM	178/7.0	45.7/1.8	77/3.1	117/4.6
1" 10 TO 200 LPM	178/7.0	51/2.0	84/3.3	122/4.8
1-1/2", 10 TO 200 LPM	198/7.8	58/2.3	90/3.6	130/5.1

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 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.

How to order

VM	3	-	B	-	15	-	L	ORDER EXAMPLE
Body Size								VM3BB15HB
3/8" NPT	3		B or N		15H			
3/8"BSPP	3B				40H			
1/2"NPT	4							
1/2"BSPP	4B							
3/4"NPT	6		AL or SS		100H			
3/4"BSPP	6B							
1"NPT	8		AL or SS		100H			
1"BSPP	8B				200H			
1-1/2"NPT	12		AL or SS		200H			
1-1/2"BSPP	12B							
							User Interface	
							L	Local (display housing attached to flow body, standard)
							R	Remote (display housing on mounting plate with cable connection to flow body)
							2.9 (M)	

Body Material		Flow Range	
Glass-Filled Nylon with Brass End Caps	B	15H	1 to 15 LPM (.3 to 4 GPM)
Nylon End Caps (3/8" and 1/2" only)	N	40H	2 to 40 LPM (.5 to 10.6 GPM)
Anodized Aluminum	AL	100H	5 to 100 LPM (1.3 to 26.4 GPM)
Stainless Steel	SS	200H	10 to 200 LPM (2.6 to 52.8 GPM

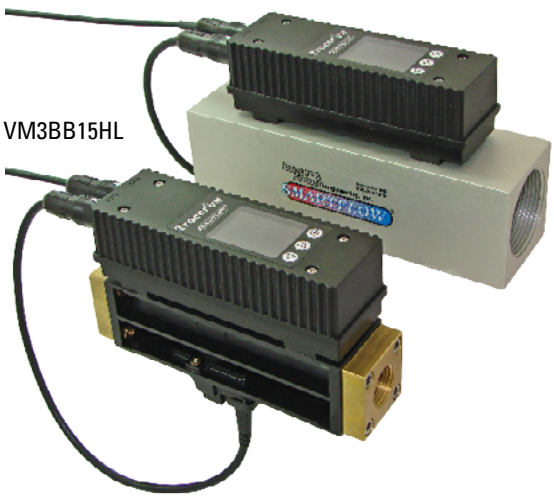
How to order

Two part numbers are required to order.
1 - Choose the model number from this page
2 - Choose cable per below

EFM-CBL-OPCA - Loose leads (standard, ends stripped)
CBL-VMI-WWA - 120VAC power supply wall adapter
EFM-CBL-OPC-0 - Cylindrical connectors for use with RJG IA1 module

VM12BAL200HL

VM3BB15HL



Local User Interface

VM4BN40HR

Remote User Interface

Add user interface to existing Tracer$_{VM}$ base model

User Interface can be added at the factory to customer-supplied Tracer$_{VM}$ without local display. Two part numbers are required.

1 - Contact the factory for an RMA number

2- Local Interface, order part number VMUI-100

3- Choose cable per below

EFM-CBL-OPC - Loose leads (standard, ends stripped)

CBL-VMI-WWA - 120VAC power supply wall adapter

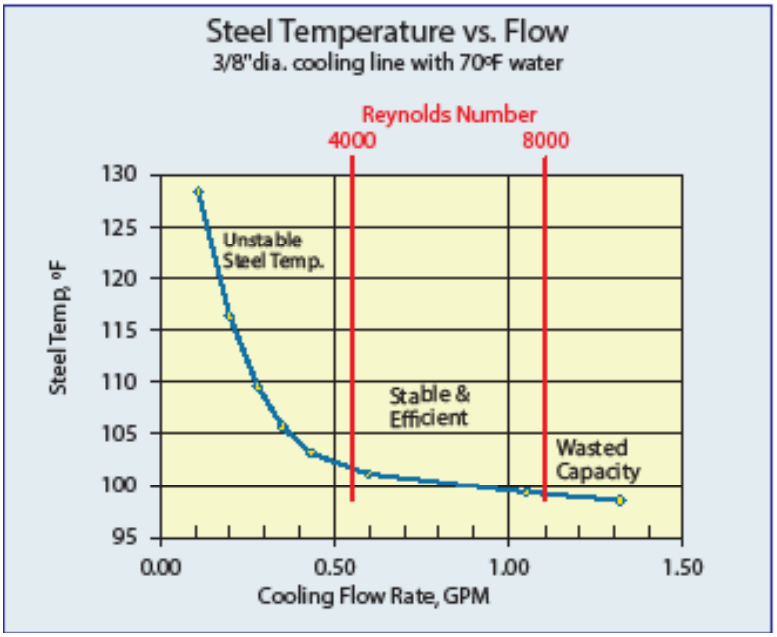
EFM-CBL-OPC-O - Cylindrical connectors for use with RJG IA1 module

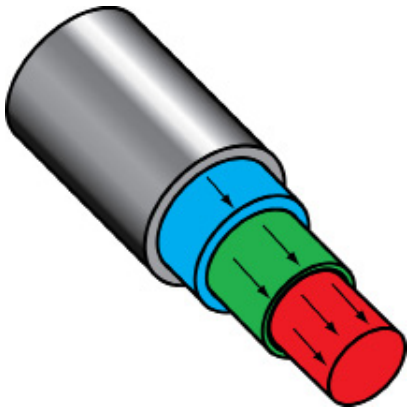
Turbulent Flow Basics

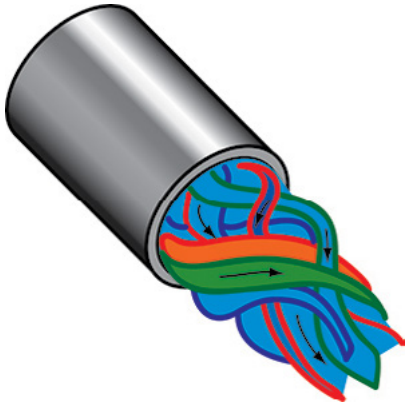
Turbulent water flow is much more efficient at removing heat in a cooling system than water flowing under laminar conditions. Once turbulent flow is achieved, increasing the flow rate does not significantly improve the cooling rate of the system.

In molding applications, many mold operators try to maximize the flow of water through their cooling systems to ensure turbulent flow. Doing so increases energy costs for pumping more water than necessary through the system. This practice may also limit the amount of cooling water available for cooling additional molds on the same cooling system circuit.

By insuring turbulent flow using FCI Technology, less water can be used in the molding process, saving precious resources.







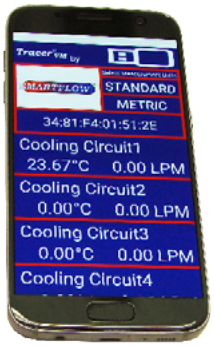
SMARTFLOW® TRACERVM® BLUETOOTH INTERFACE

Step into the 21st century with the TRACERvm Bluetooth interface. Operators are able to view real time cooling data via Bluetooth compatible devices.

Tracer$_{VM}$ Bluetooth Interface collects, transmits and saves data from Tracer$_{VM}$ Base flowmeters installed in injection mold cooling circuits. Flowmeters purchased separately are connected via cable to the Tracer$_{VM}$ Bluetooth Interface. The Interface provides power to each flowmeter and receives voltage signals for temperature and flow. The Bluetooth Interface wirelessly transmits flow and temperature to display on a mobile device. Flow condition data log files can be created via app and saved on USB flash drive documenting the mold cooling water conditions. The Interface also communicates over Ethernet connection to PC software for network file storage and alerts. The files are easily read into database software for reference or analysis. Scientific Molders can use this data to confirm processing parameters and optimize cycle times and cooling water effeciency.

ITEM NUMBER
VMBTI100

Data Logger Software
(PC based for network file storage and alarm capabilities)



Get it on iTunes

GET IT ON Google Play

Tracer$_{VM}$ Bluetooth Interface includes the Interface module and all software necessary to create cooling line log files.

Mobile app allows for creation of log files to be saved on Interface connected USB. The Ethernet port on the Interface connects to local network enabling log file creation, storage and process alerts.

Peripheral equipment such as PC, Mobile Device or flash drives are user provided. Input comes from Tracer$_{VM}$ Base models.

Features and Benefits

- Transmits temperature and flow conditions in real time to mobile devices for process monitoring up to 20 meters away.
- Simplifies multiple Tracer$_{VM}$ Base installations by providing power, ground and signal termination near the process.
- Gasketed, water-resistant plastic enclosure provides secure mounting in locations where occasional water spray is present.
- Housing mounting holes are integral for easy installation.
- Ethernet port connects the Interface to a local network for communication with Data Logger software.
- USB port provides mobile device charging plus flash drive connection.
- Smartflow Data Logger PC software included.

Specifications:

Housing.....NEMA4X compliant
Operating Temperature.....0°C to 52°C (32°F to 125°F)
Maximun Wireless Range.....20 meters (65.5 ft)
Maximum Tracer$_{VM}$ Base Flowmeter
Distance to Bluetooth I/F.....3 meters (10ft)
Power required .....8 to 28VDC with earth ground (external)
Cord grips.....9 pieces liquid-tight (included)
Data logging software.....included

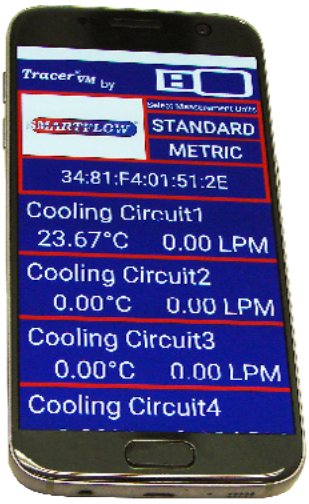
TracerVM Base

Mobile App

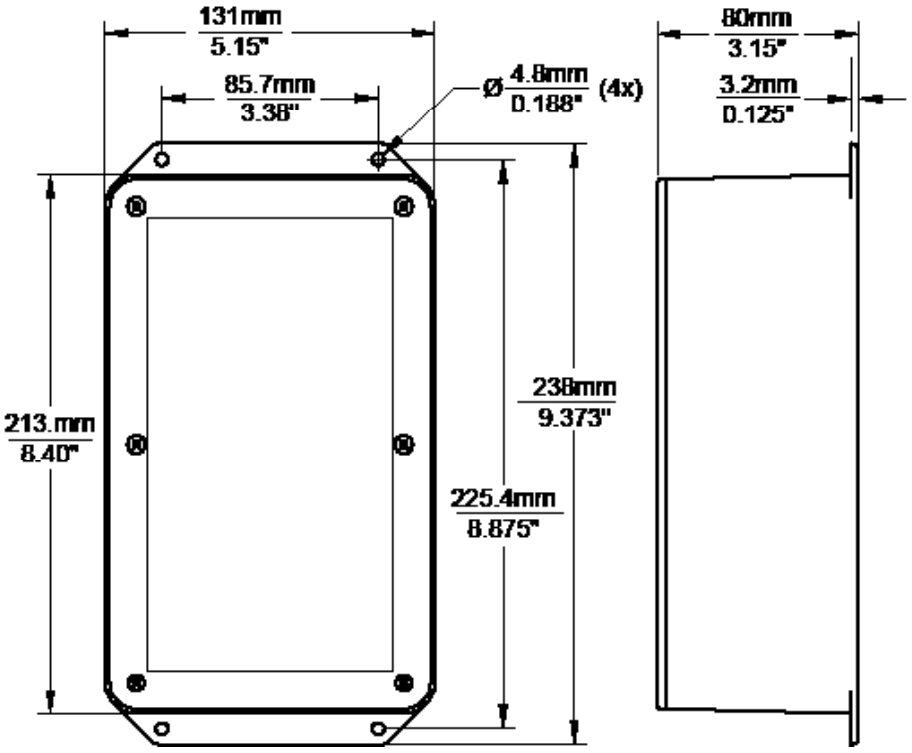
Tracer$_{VM}$ Mobile App is available for free download from iTunes or the Google Play store. Search for "Tracer$_{VM}$". The mobile app displays temperature and flow rate data from one Interface module with up to 8 flowmeters at one time.

Functions:

- Saves .csv file to USB data storage device connected to the Bluetooth Interface Module for archiving and analysis.
- Display and data logging options include:
  - * Name Interfaces
  - * Name individual cooling circuits on the device
  - * Name .csv file
  - * Manual or Scheduled duration
  - * Selectable log rate between 1 and 3600 seconds
  - * Metric or English units



VMBTI-100 Enclosure Dimensions

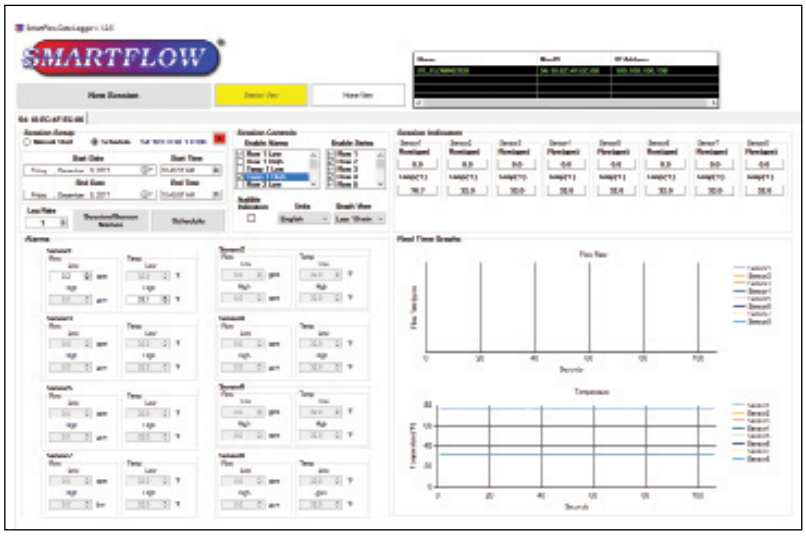


Data Logger (PC Based Software)

The Data Logger Software is provided to you free of charge as a .zip file via USB flash drive or internet download.
The Data Logger displays temperature and flow rate data from up to 10 Tracer$_{VM}$ Interface Modules with each module on a separate tab.

Functions:

- Saves .csv file to specified location for archiving and analysis.
- Display and data logging options include:
  - Name Interfaces
  - Name individual cooling circuits in the session (display only)
  - Name .csv file
  - Manual or Scheduled duration
  - Selectable log rate between 1 and 3600 seconds
  - Metric or English units
  - Set alerts for low or high temperature and flow rates
  - View real-time graph for each Tracer$_{VM}$ Base unit. View data from each Tracer$_{VM}$ Interface module in individual tabs.



PC-Based **Smartflow Data Logger Software** provides temperature and flow process data that can be used in database software for reference and analysis. These data records are useful to injection molders maintaining compliance to regulatory requirements and quality control.

Two screen views are available: Home View and Session View.

Home View

The Home View displays graphs of temperature and flow cooling water conditions for all Tracer$_{VM}$ Base flowmeters connected to Tracer$_{VM}$ Bluetooth Interfaces. Up to 10 Interfaces can be displayed graphically on one screen. The maximum number of Tracer$_{VM}$ Bluetooth Interface Units visible for selection is 30. The Home View can show overall health of cooling water lines across the shop floor. An unexpected value for flow or temperature can be seen quickly and may be an indication of a blocked cooling line or out-of-tolerance processing conditions resulting in poor molded part quality.

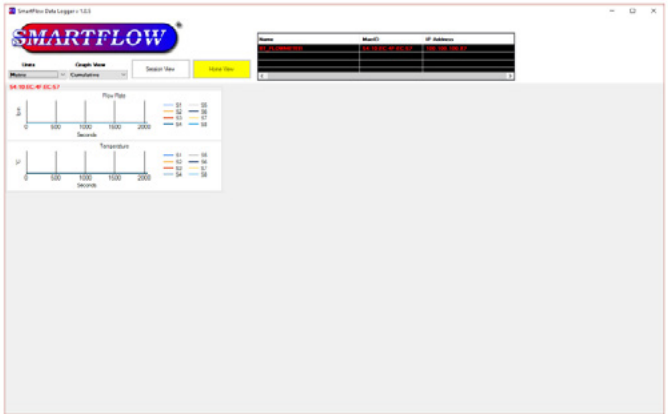
Session View

Session view displays one Tracer$_{VM}$ Bluetooth Interface with temperature and flow values for each connected Tracer$_{VM}$ Base flowmeter. A maximum of eight flowmeters can be viewed on the screen in Session View. A maximum of 10 Interfaces can be accessed as tabs in the session view at one time.

Log files are created in Session View. These can be started manually or scheduled as needed. Maximum recorded log length is 72 hours.

Session Controls box allow users to set alerts for low or high temperature and flow conditions. When data is being recorded, an alert will pop up on screen to notify the user when a parameter has been breached. The indicator will disappear as soon as the condition that caused the alert has cleared. Alerts are disabled when recording is not active.

Session Indicators at the top of the screen display current temperature and flow values from Tracer$_{VM}$ Base Flowmeters that are connected to the selected Interface. Real Time Graphs are also displayed for each flowmeter connected to the Interface. Unused flowmeter locations may be disabled as needed. Active Interface units are selected via tabs located near the top of the screen



Home View

Session View

DD - TRACER WITH FLUID CHARACTERISTIC INDICATION (FCI) TECHNOLOGY

With the new Tracer Electronic Flowmeter, it is easier than ever to know exactly how much water is flowing through your water lines. In addition to flow rate, the Tracer™ provides a precise temperature reading of the water. It will calculate BTU's and display "TFLOW" message when Turbulent Flow is present. With the new information the Tracer™ will provide, you can manage your processes more completely and accurately.

Know Your Flow

There is no need to guess if water is flowing through each line or zone of a mold. Now you can know exactly how much is flowing. Your flow rate is displayed in 100ths of a gallon per minute. If you prefer, flow is displayed in liters per minute.

Know Your Water Temperature

In addition to providing current flow rate data, the Tracer™ also provides the current water temperature at the flowmeter. Used on the supply side, this can verify precise water temperature as it enters the mold. Put the Tracer™ in the out or return side and measure water temperature exiting the mold. Temperature can be displayed in either Fahrenheit or Celsius units, user selectable.

Know Your BTU's

The setup mode of the Tracer™ allows you to enter the incoming or supply water temperature. Then with the Tracer™ attached to the return water line, it will calculate BTU per minute.

Know Your FCI's

Tracer flowmeter displays a special message ("TFLOW") when Turbulent Flow is present in your cooling water. Turbulent flow is the condition of optimum cooling efficiency. Tracer flowmeter calculates this condition based on the cooling water line size, water temperature and percentage of glycol (0, 10% 20% or 30%) as input in the setup mode.

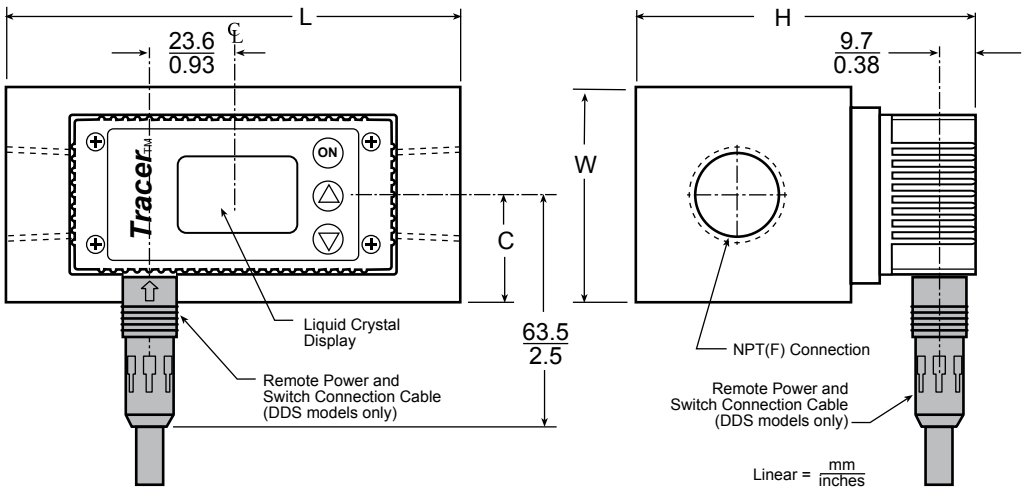
Versatile

The Tracer™ can be mounted in any position. It can accept flow in either direction. 3/8" units include a sight glass on the back for visual verification of flow. Select the optional quick-connect fittings and use the Tracer™ as a test kit to diagnose your water line problems.

Digital LCD Display

The digital display Tracer™ is battery powered and has an easy-to-read LCD which displays flow rate, temperature or BTU's at the touch of a button. A programmable auto shutoff feature extends battery life.

REF	Inlet/Outlet	Temp. Range	Temp. Accuracy	Flow	Flow Accuracy	Weight
DD3B	3/8" BSP inlet and outlet	0–82 °C	± 2%	2–30 lpm	± 5%	0,7 kg
DD3BB	3/8" BSPP inlet and outlet	0–82 °C	± 2%	2–30 lpm	± 5%	0,7 kg



F - MECHANICAL FLOWMETERS

Features

- Compact, rugged design
- 99° (210 °F) temperature rating
- Operating pressure 6,9 bar max
- Max flow 75lpm
- Aluminum body
- Polysulfone sight glass
- Can be mounted in any position
- Optional thermometer & pressure gauge

Materials & Options

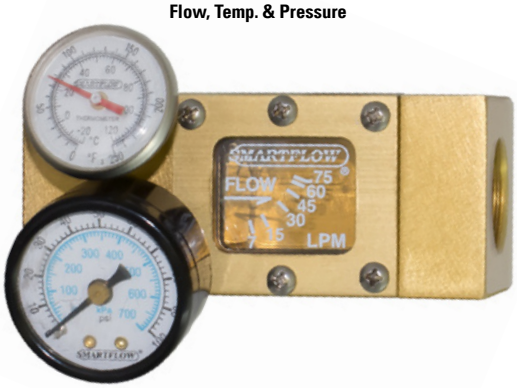
Body.....Anodized aluminum
Sight glass .....Polysulfone
Gasket.....Neoprene
Vane .....Stainless steel
Spring .....Stainless steel
Pin & screws .....Stainless steel
Thermometer (opt.).....0° 250°F/–20° –120°C
Pressure gauge (opt.) .....0 to 100 PSI

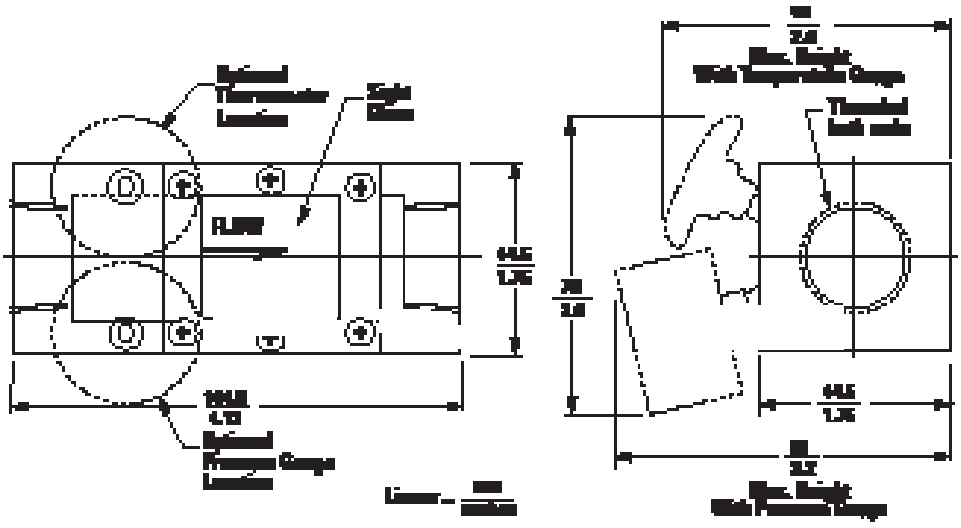
REF	Flow	Measurement	Inlet/Outlet
F06BA75	7 – 75 lpm	Flow	3/4" BSP
F06BB75	7 – 75 lpm	Flow and temperature	3/4" BSP
F6BC375	7 – 75 lpm	Flow, temperature and pressure	3/4" BSP

Flow

Flow & Temp.

Flow, Temp. & Pressure

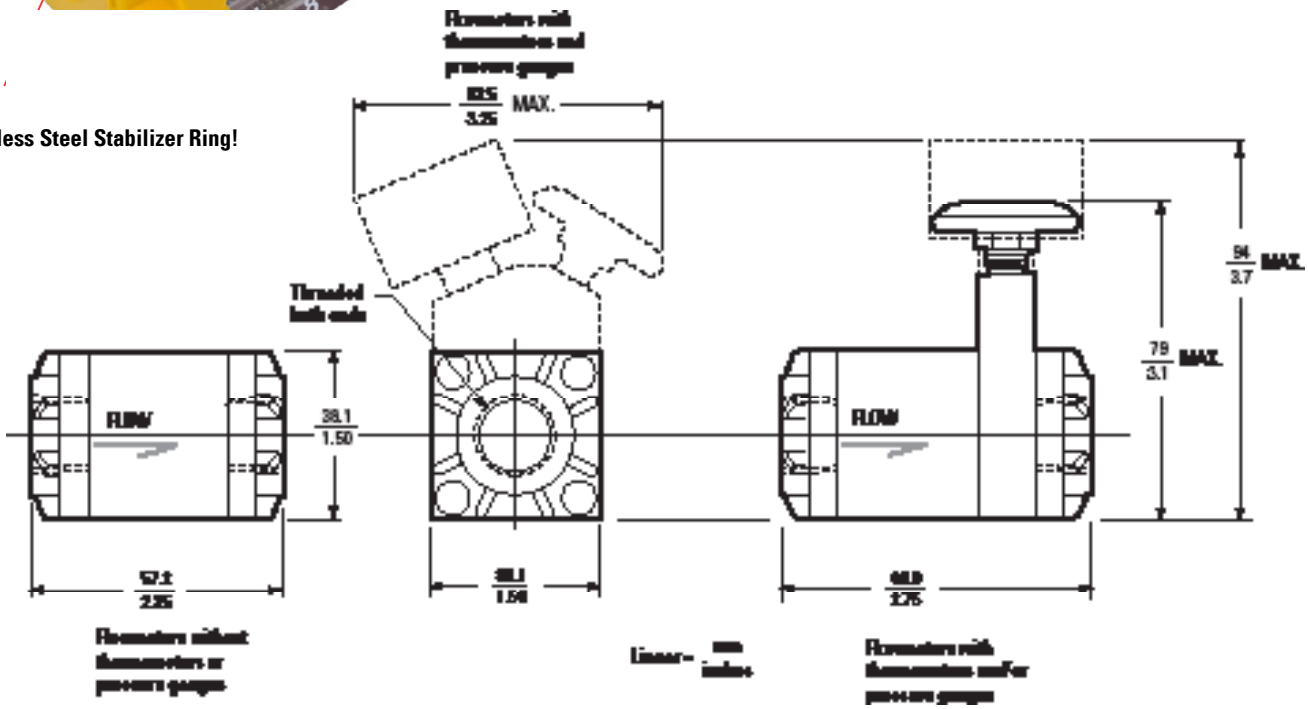




FP - ICECUBE™ FLOWMETERS WITH NYLON END CAPS

REF	Flow range	Measurements	Inlet Size
FP3BA30	4 – 30 lpm	Flow	3/8 " BSP
FP3BC30	4 – 30 lpm	Flow, temperature and pressure	3/8 " BSP

Stainless Steel Stabilizer Ring!



Reinforced Nylon End Caps reduce weight and cost of proven mechanical flowmeter design.
Stainless steel stabilizer ring holds threads stable, preventing distortion. Nylon material provides dielectric insulator to help prevent galvanic action due to dissimilar metals.

General Description
Smartflow® Mechanical Flowmeters are durable, vane-operated devices that provide visual indication of flow rate in many different styles and sizes. Rugged wetted parts are compatible with many process liquids.
Optional temperature and pressure gauges add functionality and flexibility to Smartflow® Flowmeters. Brass quick-connect fittings are available to create an excellent, portable tool for determining flow and locating clogged lines.

Features and Benefits
- Compact size works well in restricted-space locations
- Rugged construction gives years of dependable service
- 99°C (210°F) temperature rating allows installation into a wide range of applications
- Optional temperature and pressure gauges display pressure and temperature information in addition to flow in one unit
- No mounting restrictions ease installation in any position without extra brackets or hardware

Wetted Parts and Materials

End Caps	Glass-filled nylon
Flow Body	Polysulfone
Vane	Glass-filled nylon
Spring	Stainless steel
O-Rings	EPDM
Cap Screws	Stainless steel
Optional Quick-Connect Fittings	Brass

Specifications

Flow Accuracy	±10% full scale
Operating Temperature	99°C max. (210°F max.)
Operating Pressure	100 PSI max. (6.9 bar max.)
Dial Thermometer	–20° to 120°C (0° to 250°F) ±2% accuracy (full scale)
Pressure Gauge	0 to 700 Kpa (0 to 100 psi) ±3% accuracy (full scale)

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