



TFM-5700 TOF flow meters

Time of Flight Flow Meters

TFM-5700 series

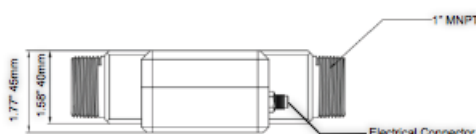
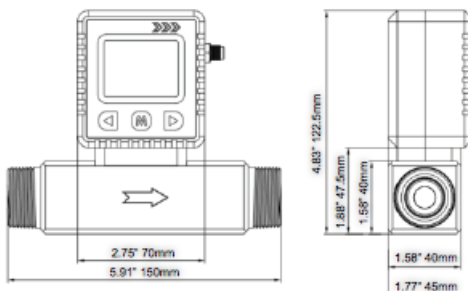
The TFM-5700 series of mass flow meters, with easy 3 button interface and large dynamic range, is designed for general purpose gas mass flow measurement using our proprietary Time of Flight MEMS sensing technology. Time of Flight, TOF, sensing technology is *NOT* dependent on gas composition as are classical Thermal Mass Flow Meters, making them ideal when gas composition changes and because they are in the time domain are *NOT* sensitive to particulate loading as are classical Thermal Mass Flow Meters

Features

- ⦿ General purpose gas mass flow meter
- ⦿ Fast response time, customizable to 1 msec
- ⦿ IP66 / NEMA x4 enclosure
- ⦿ Large dynamic range, over 100:1
- ⦿ Serial, Analog and LCD interface
- ⦿ Customer accessible 3 button user Interface

Applications

- * General purpose flow measurement
- * Low flow gas metrology
- * Industrial process control
- * Instrumentation
- * Ideal for dry and clean gases
- * Natural Gas Measurement



The outer mechanical dimensions are the same for both 1/2" and 1" flow meter sizes. The standard Male NPT threaded adapters can be customized. 2" NPT meters are 7.88" 200 mm long end to end

Pinout

Red	Power supply (8-24Vdc)
Black	GND
Green	RS485 (A)
White	RS485 (B)
Yellow	4-20mA

Tactical Flow Meter

22642 Indian Springs Rod
 Salinas, Calif 93908

831-455-0418

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Factory Address

1341 Dayton Street Unit I
 Salinas, CA 93901



Specifications

Model	TFM5700	
Flow range	Full scale 60 to 3000, selectable for 3/8" to 2" NPT	SCFH
Accuracy	$\pm(1.5+0.2FS)$	%
Turn-down ratio	> 100:1	
Power consumption	≤ 50.0 (Or 2 mA at 24 VDC or 4 mA at 12 VDC)	mW
Response time	10 (default, 50, 100, 200, 500, 1000 selectable)	msec
Maximum pressure rating	1.0	MPa
Maximum pressure loss	0.2" H ₂ O or 100 Pa @ 50%FS	Pa
Temperature	- 10 to 55	°C
Power supply	8 - 24	VDC
Enclosure	IP66 / NEMA X4	
Temperature coefficient	± 0.05	%/°C
Output	LCD /RS485/4 - 20 mA	
Mechanical connection	NPT/BSPT or customer specified	
Enclosure	Anodized Die Cast Aluminum and Stainless steel standard	

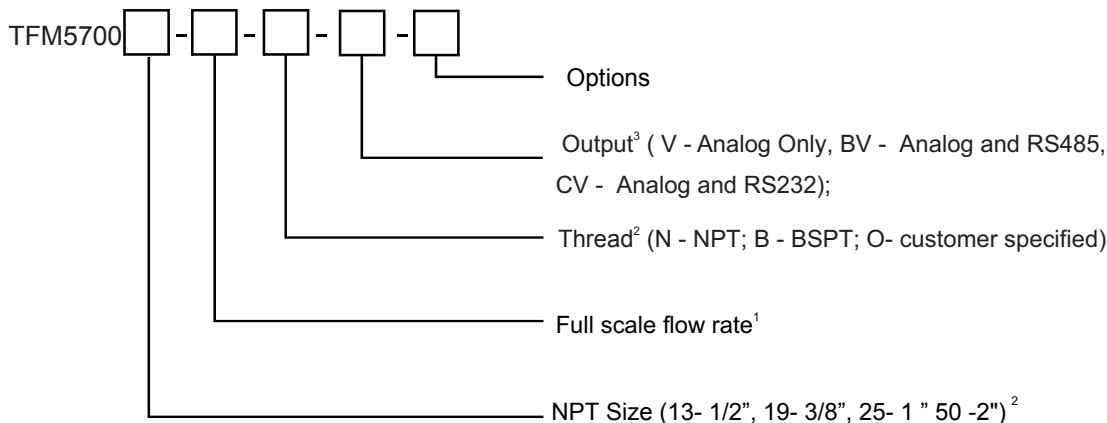
Notes: * The above values are applicable at 20°C and 101.325 kPa, air calibration. 60°F for Natural Gas Industry

** Digital interface can be customized.

*** Threaded connections can be customized.

Ordering information

The meter part number is composed of the model number and suffixes indicating the meter size code, full scale flow rate, thread size, output and options



1. Numerical maximum flow rate only, for example, 60 for a full scale flow rate of 60 SCFH. Different flow rates may require a different flow channel size for the best performance.
2. For other threaded connectors, please contact manufacturer.
3. The meter shipped with standard RS485 interface with 4-20mA.

• **Contact Sales at 831-455-0418 or Dave@TacticalFlowMeter.com**