ECONOMICAL BALL BEARING GAS TURBINE FLOWMETERS with Male NPT Fittings

1 YEAR

WARRANTY

MADE IN

USA

NIST

FTB-930/940 Series Starts at

\$**1060**

- ✓ ±1% of Reading Accuracy
- Ball Bearing Design for Economy
- ✓ 440C Bearing Retainers for Durability
- Ball Bearings Field Replaceable Without Loss of Calibration
- Deflector Cones Stabilize Low-Mass Rotor for Increased Bearing Life
- NIST Certificate Supplied Standard

The OMEGA® FTB-930 and FTB-940 Series turbine meters have male NPT end fittings for easy connections. They are suitable for use with gases with a minimum density of 0.025 lb/ft³ (air at STP is 0.0752 lb/ft³).These units come supplied with a mating 2-wire connector and can be supplied with integrally mounted FLSC-60 Series signal conditioners to provide 4 to 20 mA, 0 to 5V, or amplified pulse outputs. These turbine gas meters are intended for clean service only; where there is any doubt about the fluid, strainers are recommended.

OMEGA® precision turbine gas flowmeters are designed to measure actual cubic feet or actual volume passing through the meter. Before sizing a flowmeter, it is necessary to convert flow units (*i.e.*, SCFM, LPM, etc.) to actual units. To convert to actual measured volume (ACFM) from standard volume (SCFM), use the following formula:

ACFM = SCFM x 14.7/Pa x Ta/530

where:

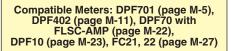
- ACFM = Actual cubic feet per minute of measured gas flow
- SCFM = Standard cubic feet per minute gas flow
 - Pa = Operating pressure (psia) in = (psig + 14.7)
 - Ta = Temperature in degrees Rankine = (°F + 460)

SPECIFICATIONS

Accuracy: ±1.0% of reading Repeatability: ±0.25% Materials of Construction: Body: 304 stainless steel Rotor: 17-4 PH SS Bearings: 440C stainless steel Output: 30 mV p-p sinewave min.



FTB-939 turbine, \$1335, shown with FLSC-61 signal conditioner, \$431. See page F-52 for details.



Electrical: 2-wire connector included Max Temp. Range: -268 to 232°C (-450 to 450°F) -268 to 65°C (-450 to 150°F) for FTB-931T Maximum Pressure Drop: Gas density in lb/ft³x 4 (psid)

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)							
Model No.	Price	Maximum Linear Range (ACFM)	Nominal K-Factor (p/ACF)	Operating Pressure (psi)	Length mm (in)	End Connections MNPT (in)	Approx. Weight. kg (lb)
FTB-931B	\$1060	0.35 to 3.5	15,000	5000	76 (3)	1/2	0.4 (1)
FTB-932	1060	0.75 to 5	6000	5000	76 (3)	1/2	0.4 (1)
FTB-933	1060	1 to 10	3160	5000	76 (3)	1/2	0.4 (1)
FTB-934	1060	2 to 20	1875	5000	76 (3)	1/2	0.4 (1)
FTB-935	1060	2.5 to 28	1035	5000	81 (3.25)	3⁄4	0.4 (1)
FTB-936	1065	4 to 60	500	3500	89 (3.50)	1	0.9 (2)
FTB-937	1096	6 to 100	322	3000	99 (3.88)	1 ¹ ⁄ ₄	0.9 (2)
FTB-938	1205	8 to 130	230	3000	111 (4.38)	1 ½	1.4 (3)
FTB-939	1335	15 to 250	133	2000	121 (4.75)	2	1.8 (4)
FTB-940	1550	25 to 450	75	1500	154 (6.06)	2 ¹ / ₂	2.3 (5)
FTB-941	1997	40 to 650	46.1	1000	254 (10)	3	3.2 (7)

Comes complete with mating connector, operator's manual and NIST certificate for air.

Ordering Examples: To order a scaled system that includes signal conditioner, turbine meter with MNPT end fittings, specify model number SYS/FTB-931B/FLSC-61, FTB-931B flowmeter with 0.35 to 3.5 ACFM range, and FLSC-61, 0 to 5V/10V signal conditioner, \$1060 + 431 = \$1491. SYS/FTB-939/FLSC-62A, FTB-939 flowmeter with 15 to 250 ACFM range, and FLSC-62A, 4 to 20 mA signal conditioner, \$1335 + 431 = \$1766.

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