

# LOW FLOW TURBINE METERS

## Stainless Steel Construction

### FLR1000ST Series



Optional†

- ✓ ±1% Accuracy
- ✓ 0.2% Repeatability
- ✓ Available with 0 to 5V, 4 to 20 mA, or Pulse Output
- ✓ Available With or Without Display

Designed for applications where stainless steel may be required, the FLR1000ST Series flowmeters are rated to 500 psig. These units are available to cover flow ranges from 13 mL/min to 10 L/min. A 0 to 5 Vdc or 4 to 20 mA analog output is standard with all units; Voltage output models are also available with an additional pulse output, or with a 3½ digit LCD readout.

FLR1009ST-D shown larger than actual size.



#### SPECIFICATIONS

**Accuracy/Linearity:** ±1% FS  
**Repeatability:** ±0.2% FS  
**Pressure Rating:** 34 bar (500 psig), maximum  
**Operating Ambient:** 5 to 55°C (41 to 131°F)  
**Storage Ambient:** 0 to 70°C (32 to 158°F)  
**Temperature Sensitivity:** ≤ ±0.2% FS/°C  
**Wetted Parts:** 316 SS, epoxy, Pyrex® glass, PPS, FKM O-rings, sapphire bearings  
**Filtration (Recommended):** 25 microns or less  
**Analog Output:** Linear 0 to 5 Vdc or 4 to 20 mA; non-isolated signal  
**Pipe Connections:** 316 SS compression tube fittings, provided

**Electrical Connections:** 4-pin male connector for both power and signal; included with 0.9 m (3') cable

#### Power:

**Voltage Output Models:** 11.5 to 12.5 Vdc (0.4 W @ 12 Vdc)  
**Current Output Models:** 18 to 24 Vdc (1.2 W @ 24 Vdc), 50 mA

### To Order

Model No. (No Display) 0 to 5 V Output and Pulse	Model No. (No Display) 4 to 20 mA Output	Model No. (Display Model) 0 to 5 V Output	Maximum Liquid Flow Range	Pressure Drop (psi)	Tube Connection
FLR1007ST	FLR1007ST-I	FLR1007ST-D	13 to 100 mL/min	10	1/8"
FLR1008ST	FLR1008ST-I	FLR1008ST-D	20 to 200 mL/min	10	1/4"
FLR1009ST	FLR1009ST-I	FLR1009ST-D	50 to 500 mL/min	10	1/4"
FLR1010ST	FLR1010ST-I	FLR1010ST-D	100 to 1000 mL/min	6	1/4"
FLR1011ST	FLR1011ST-I	FLR1011ST-D	0.2 to 2.0 L/min	10	1/4"
FLR1012ST	FLR1012ST-I	FLR1012ST-D	0.4 to 5.0 L/min	10	3/8"
FLR1013ST	FLR1013ST-I	FLR1013ST-D	1 to 10 L/min	10	3/8"

#### Accessories

Model No.	Description
U12Y100	12 Vdc power supply for 0 to 5 Vdc output models
PSU-93	24 Vdc power supply for 4 to 20 mA output models
FLR1000-C	Replacement 0.9 m (3') cable

Comes complete with 0.9 m (3') cable and operator's manual.

†For optional 4-point NIST calibration certificate add suffix "-NISTWATER" to model number, for additional cost (FLR1007ST Series calibrations are 3-points).

**Ordering Examples:** FLR1011ST, 0 to 5V output and pulse, 0.2 to 2 L/min.

FLR1013ST-D, display model with 0 to 5V output, 1 to 10 L/min.