



FLOWMETERS

For Liquid Flow of 0.03 to 475 GPH

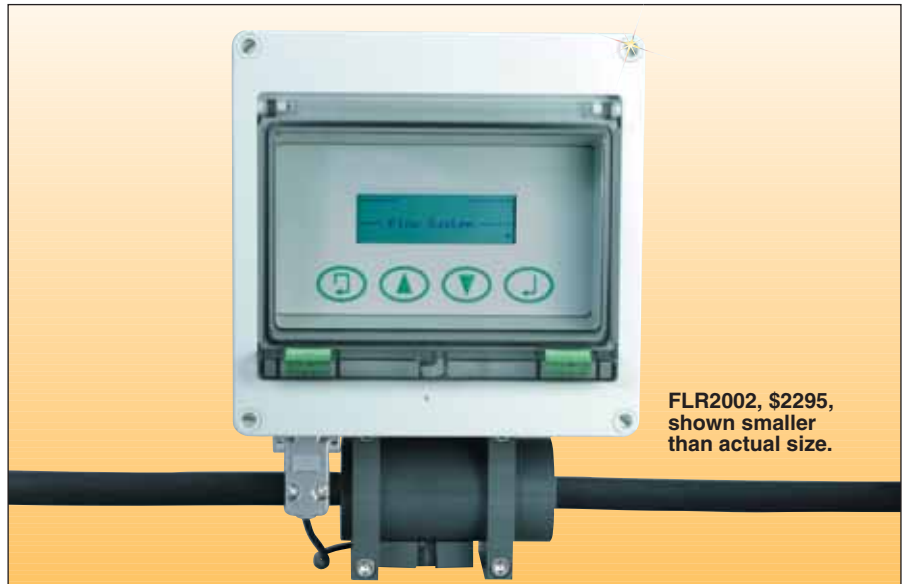


FLR2008
\$1695
 Basic Unit



- ✓ Good for Many Aggressive/Corrosive Slurries or Liquids
- ✓ NEMA 4X (IP66) Enclosure
- ✓ Measures Flow Rate and Total Flow
- ✓ RS232 Communications

The FLR-2000 Series Meters and FLV-2000 Series offer a solution for real-time metering and control of chemicals which are injected, pumped, dosed or dispensed. Flow ranges of less than 0.03 GPH to 475 GPH at pressures from 20 to 250 PSI meet the general range of use in Water, Waste Water, Industrial, CPI, Food and Beverage, and Pharmaceutical marketplaces. The $\pm 1\%$ Full Scale accuracy insures precision. A 4 line x 20 character digital display enables the user to gather information, reset totalizer and input control commands within seconds. RS232, 4 to 20 mA or 0 to 5 Vdc and relay outputs are standard. An advanced material coating process combined with a PVC body provide resistance to aggressive flow media. The wet side of the flow system is isolated from the electronics yet close coupled for easy installation, operation and maintenance. FLV-2000 models allow the user to remotely set a pump rate or proportional valve setting.



FLR2002, \$2295, shown smaller than actual size.

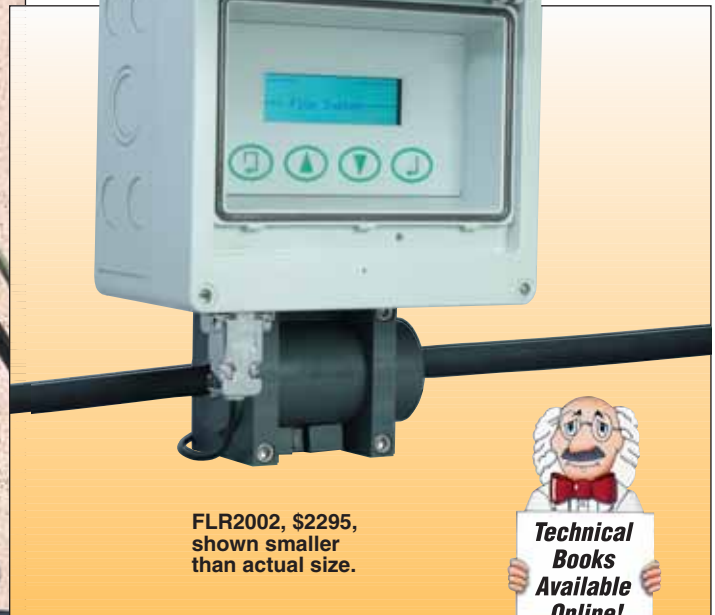
SPECIFICATIONS

Accuracy	$\pm 1\%$ Full Scale
Repeatability	$\pm 0.5\%$ Full Scale
Linearity	$\pm 0.25\%$ Full Scale
Response Time (Typical)	50 Milliseconds
Flow Units	Volume (GPM, GPH, CCM, LPM)
Temperature Range	0 to 70°C (32 to 158°F)
Temperature Coefficient	0.05%/°C
Turndown Ratio	50:1
Standard Conditions	25°C and 1 Atmosphere
Maximum Pressure	17.2 bar (250 psig)
Humidity Range	0 to 100%
Supply Current	0.25 Amp with back lighting on meters and 0.35 Amp with back lighting on controllers
Supply Voltage	15.0 Vdc maximum @ 300 mA maximum current on meters and 500 mA on controllers
Supply Voltage 4 to 20 mA Output Models	Loop powered—No supply necessary
Input Standard Signals	1 digital input—TTL/CMOS compatible 1 analog input—0 to 5 Vdc equals maximum flow
Output Standard Signals	2 analog 4 to 20 mA outputs (flow rate) 1 RS232 serial port (19200 baud rate) 1 dry closure relay output (SPDT 0.5 amp DC) for flow/no flow
Setpoint Output	FLV models use one of available 4 to 20 outputs for a remote setpoint signal (RS232 also available for output)
Power Consumption	Less than 3.5 watts
Indicating Display	4 line x 20 character LCD—Back lighted
Interface Screens	Membrane touch switch w/11 menu screens
Connector—Electrical	Weather tight circular high-density connectors
Connector—Mechanical	$\frac{1}{2}$ " NPT
Wetted Materials—Standard	PVC, Viton® O-rings
Wetted Materials—Optional	CPVC, Kel-F, Teflon®, SS 316, DLC
Dimensions	26.03 H x 18.09 W x 12.3 cm D (10.25 x 7.125 x 4.875")
Pressure Drop Typical—Full Scale	20 to 60 psi



FLV2003, \$2195, shown smaller than actual size.

PHP-313-G, \$1044, shown smaller than actual size. See page L-22.



FLR2002, \$2295, shown smaller than actual size.



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No. Flowmeters	Price	Model No. for Remote Setpoint	Price	Max. Flow Range 50:1	GPH
FLR2002	\$2295	FLV2002	\$2395	2 cc/min	0.03
FLR2003	1995	FLV2003	2195	5 cc/min	0.07
FLR2004	1995	FLV2004	2195	10 cc/min	0.15
FLR2005	1995	FLV2005	2195	20 cc/min	0.32
FLR2006	1995	FLV2006	2195	50 cc/min	0.79
FLR2007	1995	FLV2007	2195	100 cc/min	1.58
FLR2008	1695	FLV2008	1795	200 cc/min	3.17
FLR2009	1795	FLV2009	2095	500 cc/min	7.92
FLR2010	1795	FLV2010	2095	1 SLPM	15.80
FLR2011	1795	FLV2011	2095	2 SLPM	31.70
FLR2012	1795	FLV2012	2095	5 SLPM	79.20
FLR2013	1995	FLV2013	2195	10 SLPM	158.50
FLR2014	1995	FLV2014	2195	20 SLPM	317.00
FLR2015	1995	FLV2015	2195	30 SLPM	475.50

Comes with power supply and complete operator's manual.

Add "-NIST5" to the model number for a 5-point NIST traceable certificate, add \$250 to price. Add "-NIST10" to the model number for a 10-point NIST traceable certificate, add \$350 to price.

Add "-BUNA" or "-EPDM" for optional O-ring material. No additional cost.

Ordering Examples: FLR2011, 2 SLPM max flowmeter, \$1795.

FLR2015, 30 SLPM max flowmeter and FLR2000-PS, replacement power supply, \$1995 + 135 = \$2130.

Accessories

Model No.	Price	Description
FLR2000-PS	\$135	Replacement power supply
ME-0341	135	Reference Book: Pump Handbook





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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

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• Data Acquisition

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• Pressure, Strain and Force

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters