

FLOWMETERS

For Liquid Flow of 0.03 to 475 GPH

FLR2008
\$1795
 Basic Unit



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



FLR2004, \$1995, shown smaller than actual size.

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 0.07 GPH to 79.20 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 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.

Specifications

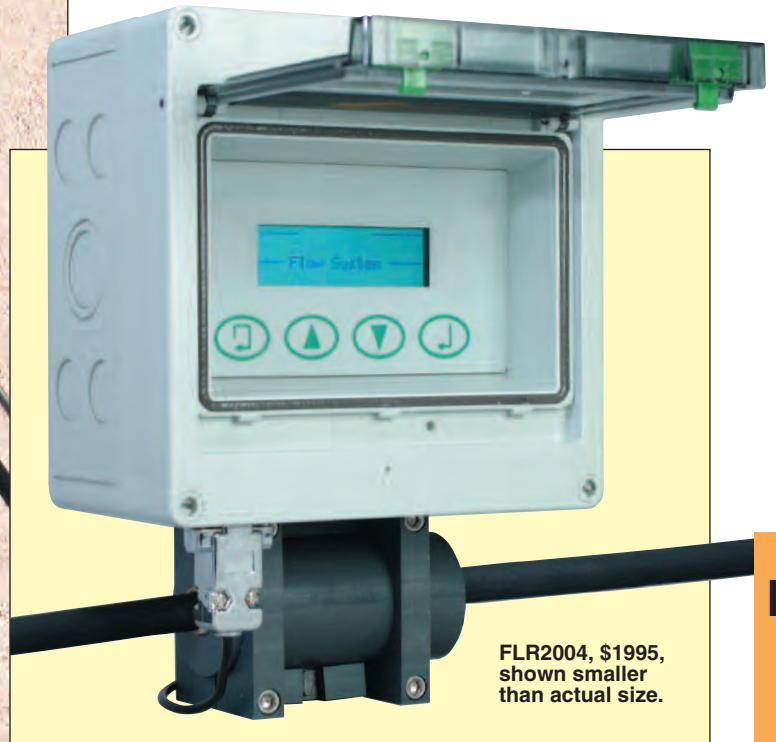
Accuracy: $\pm 1\%$ full scale
Repeatability: $\pm 0.5\%$ full scale
Linearity: $\pm 0.25\%$ full scale
Response Time (Typical): 50 mS
Volume Flow Units: GPM, GPH, CCM, LPM
Temperature Range: 0 to 70°C (32 to 158°F)
Temperature Coefficient: 0.05%/°C
Turndown Ratio: 50:1
Standard Conditions: 25°C and 1 atmosphere
Maximum Pressure: 17.2 bar (250 psig)
Humidity Range: 0 to 100%
Supply Current: 0.25 A with back lighting on meters, 0.35 A with back lighting on controllers
Supply Voltage: 15.0 Vdc max @ 300 mA max current on meters and 500 mA on controllers
Input Standard Signals: 1 digital input, TTL/CMOS compatible; 1 analog input, 0 to 5 Vdc equals maximum flow

Output Standard Signals: 2 analog 0 to 5 Vdc outputs flow rate; 1 RS232 serial port, 19200 baud rate, 1 dry closure relay output, SPDT 0.5 A DC for flow/no flow
Setpoint Output: FLV models use one of available 0 to 5 Vdc outputs for a remote setpoint signal; RS232 also available for output
Power Consumption: Less than 3.5 W
Indicating Display: 4 line x 20 character back light LCD
Interface Screens: Membrane touch switch with 11 menu screens
Connectors:
Electrical: Weather tight circular high-density connectors
Mechanical: 1/2" NPT
Standard Wetted Materials: PVC, FKM O-rings
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



PHP-314-G, \$1250, shown smaller than actual size. See page L-22.

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



FLR2004, \$1995, shown smaller than actual size.

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Flowmeters

 MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)			
Model No.	Price	Max Flow Range 50:1	GPH
FLR2004	\$1995	10 cc/min	0.15
FLR2006	1995	50 cc/min	0.79
FLR2010	1795	1 SLPM	15.80
FLR2012	1795	5 SLPM	79.20

Remote Setpoint

Model No.	Price	Max Flow Range 50:1	GPH
FLV2003	\$2195	5 cc/min	0.07
FLV2004	2195	10 cc/min	0.15
FLV2008	1795	200 cc/min	3.17
FLV2009	2095	500 cc/min	7.92
FLV2010	2095	1 SLPM	15.80
FLV2011	2095	2 SLPM	31.70

Comes complete with power supply and operator's manual.
Ordering Examples: FLR2006, 50 cc/min max flowmeter, \$1995.
FLV2003, 5 cc/min max flowmeter with remote setpoint, \$2195.

Recommended Reference Book: Pump Handbook, ME-0341, \$135. Visit omega.com/bobi for Additional Books.



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www.omega.com
1-800-TC-OMEGA
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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

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• 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