

FLO-MATE™ Portable Flowmeter



A Flowmeter Ahead of its Time

Ideal Applications

Streams

Weir/Flume Calibration

Sewers

Mining Channels

Irrigation Channels

Open Channels

Full Pipes



The Flo-Mate™ Model 2000 was designed to include the features that you have desired in a flowmeter, but have until now been unable to find in any other available flowmeter.

Determine volumetric flow in rivers, streams, irrigation ditches, sanitary pipes, or wherever water flows. Check the calibration of existing flowmeters, as well as weirs and flumes. Instantaneous readout, lightweight, rugged field construction with no moving parts, water resistant, battery operation, and storage/recall of 19 data points are just a few of the features that make Flo-Mate your clear choice in velocity flowmeters.

Our proven electromagnetic velocity sensor, introduced in 1974, assures you of unsurpassed accuracy and dependability. When the sensor is placed in flowing water, its magnetic field creates a voltage. This voltage is sensed by electrodes embedded in the sensor and is transmitted through the cable to the meter. The voltage amplitude, representing the rate of water flowing around the sensor, is electronically processed and displayed on the instrument panel.

Turbulent/noisy flows are easily metered with Flo-mate's™ two user-selectable data averaging features – Fixed Period Averaging or Time Constant Mode.

LOW BAT 1888 SEC. 18
NOISE CONSLIST PT/S M/S MEMORY
PERIOD

Display Check Mode

4.02 FT/S

Time Constant Mode

258 FT/S
PERIOD

Fixed Period Averaging Mode

48 12
PERIOD M/S MEMORY

Storage Mode for 19 Velocity Readings

48 12
PERIOD M/S MEMORY

Recall Mode for Stored Velocity Readings

Easy-to-use keypad operation

Digital Display Functions

Contoured electronics case design

Wading Rod Mounting Hole

Proven electromagnetic sensor utilized since 1974

Microprocessor based electronics

Rugged case made of high impact molded plastic

User accessible battery compartment

Features that make a difference...



**5 Year
Sensor
Warranty**

- Instantaneous readout of flow velocity
- Ideal for calibration of flumes, weirs and other primary devices
- Proven electromagnetic sensor originally introduced in 1974
- Water resistant electronics
- Data storage/Recall capability-store and recall up to 19 data points while profiling in the field
- Lightweight — only 3 1/2 pounds
- External charging capability
- Rugged case made of high impact molded materials
- Capable of accurately registering low flows
- Accuracy verified by in-house towing carriage facility
- Direct replacement for USGS type mechanical meters
- Adjustable filter modes: Time constant or fixed period average
- System self-check function
- Battery saver mode/auto shut-off
- Battery powered – rechargeable or disposable
- Bar graph displays timing information for fixed period mode
- Sensors available for full pipe applications
- Optional disconnectable sensor available

FLO-MATE™ Model 2000 Specifications and Ordering Information

VELOCITY MEASUREMENT

Method: Electromagnetic
Zero Stability: ± 0.05 ft/s
Accuracy: $\pm 2\%$ of reading + zero stability
Range: -0.5 to +20 ft/s
(-0.15 TO 6m/s)

OUTPUTS

Display: 3 1/2 digit
Signal Output: (Optional)
Analog: 0.1v per 1 ft/s or 1 m/s

MATERIALS

Sensor: Polyurethane
Cable: Polyurethane jacket
Electronic Case: High impact molded plastic-NEMA 4

ENVIRONMENTAL

Sensor: 32° to 160°F (0° to 72°C)
Electronics: 32° to 122°F (0° to 50°C)

POWER REQUIREMENTS

Batteries: Two D Cells
Battery Life:
Alkaline: 25-30 continuous ON hours
NiCad™: 10-15 continuous ON hours per charge
External Supply: (Optional) 120V, 1W or 220V, 1W

WEIGHT

With sensor and 20' of cable: 3 1/2 lbs.
Without sensor: 2 1/2 lbs.

ORDERING INFORMATION

FLO-MATE™ Model 2000 Flowmeter includes electromagnetic sensor with 20 feet of cable, Carrying Case, Universal Sensor Mount, and Instruction Manual. Standard velocity outputs include feet/second (ft/s) and meters/second (m/s).

Built-in options available include sensor disconnect, power in/signal out and additional sensor cable. Max. 100 feet.

Accessory options available include wading rods, suspension cable kit and flow tables.

NOTE: A 1" or 2" Full Pipe Insertable Electromagnetic Velocity Sensor and 1" Open Channel Bi-Directional Cylindrical Velocity Electromagnetic Sensor are available. Contact factory for additional information.

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ISO 9002 Certified Mfg. Facility



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