

## Marsh-McBirney Flowmeter and USGS Top-Setting Wading Rod



The Marsh-McBirney Model 2000 Flo-Mate uses an electromagnetic sensor to measure water velocity. Powered by two D-size batteries, the unit has a measurement range of -0.5 to +19.99 feet per second (-0.15 to +6 meters per second). The top-setting wading rod allows the sensor to be conveniently set at 20%, 60%, and 80% of total depth.

### **Use:**

The device measures the velocity profile so that flow in open channels can be calculated.

### **Maintenance:**

Routine maintenance of the flow meter consists of cleaning the sensor and changing the batteries. Use soap and water to remove nonconductive coatings (oil and grease) from the sensor. Never use hydrocarbon solvents. Oily coatings can cause noisy readings or inaccurate (low) conductivity readings. If problem readings persist after washing the sensor, gently clean the carbon electrodes with very fine (600) grit sandpaper.

### **Check-out & contact information:**

This flow meter and wading rod are available from the Technical Services Branch of the Mid-Continent Region, Contact Brian Hicks at 618-463-6463 ext. 5121 or [bhicks@osmre.gov](mailto:bhicks@osmre.gov).

Equipment may be borrowed for a specific period. Equipment on loan will be temporarily

transferred using a Department of the Interior Property Pass, Standard Form DI-1934, signed by the appropriate responsible individuals. OSMRE will generally pay for delivery to the requestor's office. The cost of return delivery will be borne by the requesting office. Some equipment is oversized or may need special handling.