FLO-TOTE

The Flow Industry Standard for Over 2 Decades...

A New Flowmeter Design with an Array of Customer Requested Features

WWW.marsh-McBirney Inc.

Ideal Applications

Wastewater Sewers

Storm Sewers

Inflow/Infiltration Studies

Modeling/Sewer System Evaluation

EPA Permitting Requirements

Combined Sewer Overflow (CSO Monitoring)

Sewer System Evaluation

Wastewater Treatment Plant Balancing



he original Flo-Tote Open Channel Flowmeter has been the industry standard for over two decades. Thousands of users worldwide have verified Flo-Tote's accuracy. Now, the revolutionary NEW Flo-Tote 3 is available with customer requested features while utilizing the same proven electromagnetic sensor technology. New features include:

- Disconnectable Sensor
- 24 Hour Service Turnaround (Minimal Down Time)
- Field Replaceable Sensor (No Calibration Needed-No Down Time)
- Sensor Interchangeability (Flo-Tote 3 and Flo-Dar)
- Extended Battery Life
- Lightweight (7.5 lbs/3.4 kg) for Easy Handling (Half the weight of Tote II)
- Portable and Permanent Models Available
- Increased Signal Intensity for Greasing Applications
- Flow Temperature Measurement

Here's How It Works

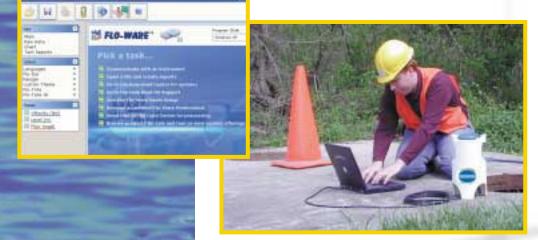
The Flo-Tote 3 measures both velocity and level in the same cross-section, a requirement necessary for accurate flow rate measurement using the Continuity Equation $Q = \overline{V} \times A$ where Q = Flow, $\overline{V} = Average$ Velocity and A = Area. The flow accuracy of the Flo-Tote is based upon the accurate measures of both velocity and level in hydraulic flow labs, as well as under actual sewer conditions. Verification of our specifications by an independent flow laboratory assures you of our commitment to accuracy.

Flo-Tote Data Management — Flo-Ware™ and Flo-Ware FX™

Flo-Ware and Flo-Ware FX[™] are your ideal flowmeter data management and communications software packages for the Flo-Tote 3.

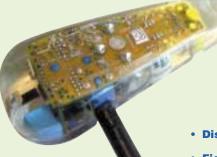
Flowmeter set-up, data retrieval and reporting are easily accomplished with Flo-Ware[™], an easy-to-use Windows[™] software package. Flo-Ware was designed for use by computer novices and experts alike. Flo-Ware for Windows works with your laptop/desktop PC.

Flo-Ware FX[™] was designed to allow field personnel to quickly and easily manage flowmeters on-site. Flo-Ware FX[™] uses an inexpensive Pocket PC and carries all of the same field features as Flo-Ware...Site Setup, Real-Time, Read Data, View Data, Calibrations, etc. can all be done with Flo-Ware FX[™].



Data management is easily accomplished with Flo-Ware and Flo-Ware FX (for Pocket PC) Windows[®] based software.

Flo-Tote 3 Electromagnetic Velocity/Area Sensor



- Increased Signal intensity for Greasing Applications
- Flow Temperature Measurement

- Disconnectable Sensor
- Field Replaceable Sensor
- Sensor interchangeability

Features

Disconnectable Electromagnetic Sensor

New

Sensor Interchangeability

No Manhole Entry with Q-Stick Band/Sensor Install Tool

24-Hour Service Turnaround

Sensor Outputs include:

- Velocity
- Level
- Flow
- Fluid Temperature

Separate sealed battery compartment

Long Battery Life

Grease Tolerant Sensor

Flow Proportional Contact Closure

High Impact PVC Case/ Stainless Hardware Suitable for a Variety of Applications



Culverts and Odd Shaped Channels



Rectangular Channels



Creeks, Rivers and Streams

FLO-TOTE 3 Flowmeter Specification Summary

SENSOR

Velocity

Range: -5 to +20 ft/s (-1.5 to +6.1 m/s) Accuracy: 2% of reading Zero Stability: ±0.05 ft/s (±15.2 mm/s) Level Range: 0.4 to 138 inches (10 mm to 3.5m) Accuracy: 1% of reading Zero Stability: ± 0.03 ft (±0.009m) Environmental 32° to 113° F (0° to 45° C)

FLO-LOGGER*

Environmental – Operating Range 14° to 125° F (-10° to 51° C)

Power Requirements

12 VDC (Two six-volt lantern batteries supplied) Battery Life: Typically 16 weeks at

15 minute sample interval.

Data

Utilizes Flo-Ware Software for set-up, data retrieval, reporting and flowmeter management. Data Storage: 64K

FLO-STATION*

Environmental – Operating Range 14° to 122° F (-10° to 50° C)

Power Requirements +12 VDC @ 220 mA with all four 4-20MA outputs @ 20 mA

Data Storage

64K

*Select FLO-LOGGER for portable monitoring applications or FLO-STATION for permanent monitoring applications.

Complete flowmeter specification available on our website (www.marsh-mcbirney.com/ specifications) or by contacting us directly.

Option/Accessory list available by contacting us directly.

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www.marsh-mcbirney.com ISO 9002 Certified Mfg. Facility



Made in U.S.A. under one or more of the following patent numbers: 4015471, 4083246, 4459848, 4549434, 4688432, 4455870, 4669308, 4821580, 5313842, 5385056 and 5811688.

'SIRA CERTIFICATION SERVICE SUPPLIER QUALITY MANAGEMENT CERTIFICATE NO.940070'

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