Portable Level-Velocity Logger

Area-Velocity Flow Measurement in Open Channels and Pipes



Level-Velocity Logger

Stingray

Logs Level and Velocity for Flow Studies

Includes powerful Windows software for Flow analysis and reporting

Measures Level, Velocity + Temperature in Open Pipes and Channels

Portable, Battery-powered

Streamlined Ultrasonic Sensor

This compact new meter operates on standard alkaline batteries for extended time periods to log level, velocity and water temperature in open channels, partially full sewer pipes and surcharged pipes *without* a flume or weir. It is designed for municipal stormwater, combined effluent, raw sewage, irrigation water and stream flow.

Stingray uses a submerged ultrasonic sensor to continuously measure both Velocity and Level in the channel. The sensor has no moving parts and is resistant to fouling and corrosion.

RELIABLE MEASUREMENT AND CONTROL

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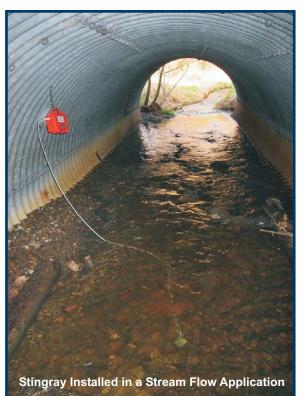
Portable Area-Velocity Meter

C tingray measures Level and Velocity in open channels or pipes. No Calibration is required. The sensor is a completely sealed ultrasonic unit with no orifices or ports. It mounts inside the pipe or at the bottom of a channel. The watertight electronics enclosure is hung in the manhole or at a convenient location. Sensor mounting bracket, batteries, software and cables are included with each Stingray.

Built-in Display for Operator Confidence 3 ft/S 00 100 -10 TEMP BATTERY Stingray's LCD 0% bar graph display MEMORY

Check Stingray status and performance without connecting to your laptop. Press the display button and the Stingray scrolls through bar graph displays of level, velocity and temperature readings, plus remaining battery and logger storage capacity.

Operators can use the LCD display to check performance at start-up and confirm Stingray readings and signal strength at any time during operation. The display powers off automatically after 60 seconds to conserve battery power.

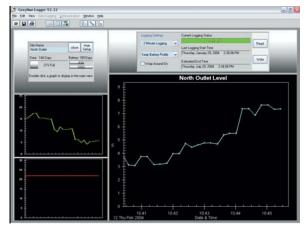


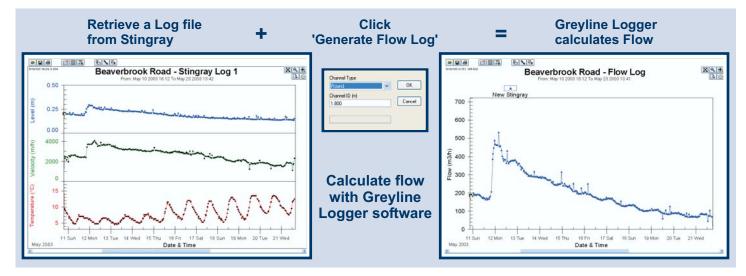
Greyline Logger Software

Powerful Windows software is included free with each Stingray. Use it to set the logger interval, to download log files and view Level, Velocity and water temperature readings in real-time.

Greyline Logger will display log files and flow rates in graph and table formats. It will generate flow reports including minimum, maximum and average flow, calculate flow totals, and convert between common measurement units.

Reporting is easy with Greyline Logger - you can export charts as image files and export data to use in spreadsheet or database programs.





Stingray Specifications

General Specifications Greyline Stingray Level-Velocity Logger

Electronics Enclosure: Watertight, airtight, dust proof (IP 67) polycarbonate Level: ±0.25% of Range. Velocity: ±2% of Reading Accuracy: LCD displays: Level, Velocity, Water Temperature, Battery and Memory capacity Display: **Operating Temp. (electronics):** -4° to 140°F (-20° to 60°C) via Greyline Logger software for Windows: Logging Time Interval, Site Name Instrument Set-up: Logger Interval: 10 sec (15 days), 30 sec (45 days), 1 min (3 months), 2 min (6 months), 5 min (1 year), 10 min (2 years), 20 min (4 years) 130,000 data points Data Logger Capacity: 4 Alkaline 'D' cells Power: **Output/Communications:** RS232, 28,800 Baud RS232 Cable: 20 ft (6 m) shielded with DB9 M/F connectors Software: Greyline Logger for Windows. Supports real-time monitoring, log file download and export, graph and data table presentation, level/velocity to flow conversion **Approximate Shipping Weight:** 10 lbs. (4.5 kg)

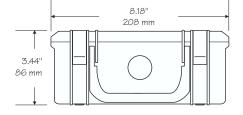
QZ02 Sensor

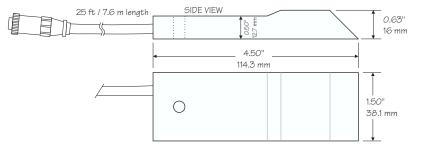
Velocity Measurement Range: Level Measurement Range: Operating Temperature: Exposed Materials: Sensor Cable: Sensor Mounting: Temperature Compensation: 0.1 to 10 ft/sec (0.03 to 3.05 m/sec) Minimum Head: 1 in (25.4 mm). Maximum Head: 15 ft. (4.5 m) 5 to 150°F (-15 to 65°C) PVC, polyurethane, epoxy 25 ft. (7.6 m) submersible polyurethane jacket, shielded, 3-coaxial includes MB-QZ stainless steel mounting bracket Automatic, continuous

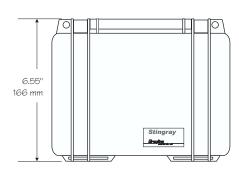
Options

Sensor Cable Extension: Sensor Mounting Bands: shielded 50 ft. (15 m) submersible, polyurethane jacket with watertight connectors Stainless steel sensor mounting bands for pipes from 6" to 72" (150 to 1800 mm)

Dimensions







QZ02-UT-01-PS VELOCITY/LEVEL SENSOR

ELECTRONICS ENCLOSURE

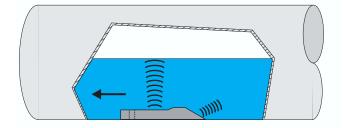
New Portable Level-Velocity Logger

for Flow Surveys in Sewers, Streams and Open Channels

Use Stingray for:

- Flow Surveys
- Inflow & Infiltration Studies
- CSO Monitoring
- Stormwater Runoff
- Irrigation Water
- Permit Compliance
- Wastewater Treatment Plant Flow Studies







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