

6526E Starflow



Applications

- Velocity, depth, computed flow and temperature
- New velocity filter for more accurate readings
- Integrated micrologger
- Compatible with Starlog
- SDI-12 communications
- LCD option available

This ultrasonic Doppler instrument is a compact, easy-to-use system for measuring the velocity and depth of water in rivers and streams, open drainage channels, and large pipes.

It is suitable for use in a wide range of water qualities ranging from sewage and wastewater to clean streams, potable water, and even sea water. The instrument measures forward and reverse flow conditions and may be programmed to compute flow rate and total flow in pipes and open channels.

The newest model, the 6526E, includes a new velocity algorithm. The ultrasonic transducer assembly is profiled to

reduce flow disturbance and signal electronics. It is designed to be placed at (or near) the bottom of the water channel for upstream measurement. A single cable connects the instrument to a 12V DC power source.

Water velocity is measured by the ultrasonic Doppler principle which relies on suspended particles or small air bubbles in the water to reflect the ultrasonic detector signal. The instrument will not operate in very clean, degassed water. Water depth is gauged by a hydrostatic pressure sensor, referenced to atmospheric pressure through the vented power and signal cable.

Specifications

Velocity:	Range: 21 mm/s to 4500 mm/s bi-directional Accuracy: 2% of measured velocity Resolution: 1 mm/s
Depth:	0 to 5 m in two ranges
Resolution:	Range 0 m to 2.5 m Range 0 m to 5.0 m Accuracy Typical $\pm 0.25\%$
Temperature:	Temperature: -17 °C to 60 °C Resolution: 0.1 °C
Flow:	Computation: Flow rate, totalised flow Channel type: Pipe, open channel, natural stream,
Integrated micrologger:	Storage memory: 100 kB, CMOS RAM Log interval: Programmable, five seconds to one week SDI-12: 1200 bps instrument channel Communication: RS-232, 300-38400 bps Control: CMOS output trigger (water sampler)
General:	Cable: 15 metre, 9 way vented, <<SQL>> compatible Power source: External battery 12V DC Power usage: 11.5 to 15V DC, 50 μ A standby, 200mA active, 90mA communications Operating Temp: 0 °C to 60 °C water temperature Material: PVC body, stainless steel mounting plate Dimensions: 290 mm x 70 mm x 30 mm (LxWxH) Weight: 1 kg (2 kg with 15 m cable)

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- Velocity, depth, computed flow & temperature
- Integrated micrologger
- Compatible with Starlog
- SDI-12 support
- LCD option available
- Cost effective



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