

6526E Starflow NRT

- Velocity, depth, computed flow and temperature
- New velocity filter for more accurate readings
- Integrated micrologger
- Integrated Neon Remote Terminal (NRT) logger for local storage
- Readings LCD display, reverse rotation, change scale and reset
- NRT communications: LCD display indicating communications status
- Integrated NRT allows real-time data reporting over the internet
- Integrated NRT allows real-time configuration changes over the internet
- 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, 50µA 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)



6526E

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

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