Sound Velocity Sensor

Category: Inspection Equipment

The Sound Velocity Sensor delivers low-noise, high-accuracy, high-resolution sound velocity data. It uses advanced digital "Time of Flight" technology.

Various sensor lengths—including down to 25 mm—make the sensor suitable for a wide range of applications, while the optional pressure or temperature sensor adds further versatility.

A unique digital signal processing technique virtually eliminates signal noise and provides an almost instantaneous response. The digital measurement is also entirely linear, ensuring predictable performance under all conditions.

A choice of data formats allows easy integration with existing systems.



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	Sound	Pressure	Temperature
Type	Direct Measurement	Strain Gauge	PRT
Range	1375 - 1900 m/s	5, 10, 50, 100 or 600 bar	-5°C to +35°C
Resolution	0.001 m/s	0.001% range	0.001°C
Accuracy	100 mm ± 0.017 m/s 50 mm ± 0.019 m/s 25 mm ± 0.020 m/s	±0.05% range	±0.01°C

Features

- Compact
- High shock and vibration resistant
- Self-contained

Specifications

Configuration	100, 50 and 25 mm
Weight (Housed)	1 kg
Voltage	8-30 V_{DC}
Power	0.25 W (SV only), 0.35 W (SV + Pressure)
Data Output	RS232 & RS485
Depth Rating	6,000 msw

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