

SE00016 SENSOR SPECIFICATIONS

Submersible Hydrostatic Non-Contact Laser Velocity Sensor

Velocity Measurement	Method	Non-Contact Laser Doppler Velocity and Ultrasonic
	Range	-4.6 m/s – 4.6 m/s (-15 ft/s – 15 ft/s)
	Accuracy	± 0.5% of reading ± 0.03 m/s (0.1 ft/s)
	Min. Velocity	0.15 m/s (0.5 ft/s)
	Max. Distance	3 m (10 ft) from liquid surface to bottom of sensor
	Direction	Selectable Bidirectional flow measurement. Requires turbidity > 20 NTU
Level Measurement	Method	Ultrasonic
	Range	0 – 3 m (0 – 10 ft) from measurement point
	Accuracy at 22°C (72°F)	± 0.006 m (0.02 ft) ≤ 1-ft level change; ± 0.012 m (0.04 ft) ≥ 1-ft level change
	Temperature Coefficient	± 0.0002 x D (m) per °C; ± 0.00011 x D (ft) per °F (D = Distance from transducer to liquid surface)
	Beam Angle	10° (5° from center line)
	Ultrasonic Signal	50 KHz
	Deadband	Zero deadband from bottom of sensor.
General	Size (H x W x D)	38 cm x 26.2 cm x 56.7 cm (15 in. x 10.3 in. x 22.3 in.)
	Weight	8.7 kg (19.2 lbs)
	Operating Temperature	-20°C to 60°C (-4°F to 140°F)
	Flow Accuracy	± 4% of reading under normal conditions