



Water Level, Stage, and Flow Sensors

Pressure transducers, bubblers, shaft encoders, ultrasonics



Campbell Scientific offers a variety of sensors to measure water level, stage, and flow: pressure transducers, shaft encoders, radar ranging sensors, sonic ranging sensors, and bubblers. Users often select their sensors based on the site location, required accuracy level, and ease of installation.

		Measurement Time	Output Options	Operating Temperature Range	Temperature Accuracy
CS451 Stainless-Steel Pressure Transducer Popular		< 1.5 s	SDI-12 (version 1.3) 1200 bps; RS-232 9600 bps	0° to 60°C WARNING: Sensor could be damaged if encased in frozen ice.	±0.2°C
CS475A-L Radar Water-Level Sensor Popular		> < 1.0 s (normal power mode) > 60.0 s + (5 • Integration Time) + (Measurement Time) (low power mode)	SDI-12	-40° to +80°C	—
LevelVUEB10 Water-Level Continuous Flow Bubbler with Integrated Screen Popular		—	Communications: SDI-12, RS-485	-40° to +60°C	—
SR50A-L Sonic Distance Sensor Popular		< 1.0 s	SDI-12 version 1.3, RS-232, RS-485 (output options selected by configuring internal jumpers)	-45° to +50°C	> ±0.2° (at 0° to 50°C) > ±0.75° (at -45° to 0°C)
CS456 Titanium Pressure Transducer		< 1.5 s	SDI-12 (version 1.3) 1200 bps; RS-232 9600 bps	0° to 60°C WARNING: Sensor could be damaged if encased in frozen ice.	±0.2°C

		Measurement Time	Output Options	Operating Temperature Range	Temperature Accuracy
CRS451V Stainless-Steel Vented Stand-Alone Pressure Transducer		< 1.0 s	micro USB	0° to 60°C WARNING: Sensor could be damaged if encased in frozen ice.	±0.2°C
CRS456V Titanium Vented Stand-Alone Pressure Transducer		< 1.0 s	micro USB	0° to 60°C WARNING: Sensor could be damaged if encased in frozen ice.	±0.2°C
CRS451 Stainless-Steel Stand-Alone Pressure Transducer		< 1.0 s	micro USB	0° to 60°C WARNING: Sensor could be damaged if encased in frozen ice.	±0.2°C
CRS456 Titanium Stand-Alone Pressure Transducer		< 1.0 s	micro USB	0° to 60°C WARNING: Sensor could be damaged if encased in frozen ice.	±0.2°C
SR50AH-L Heated Sonic Distance Sensor		< 1.0 s	SDI-12 version 1.3, RS-232, RS-485 (output options selected by configuring internal jumpers)	-45° to +50°C	<ul style="list-style-type: none"> ➤ ±0.2° (at 0° to 50°C) ➤ ±0.75° (at -45° to 0°C)
SR50AT-L Sonic Distance Sensor with Temperature Sensor		< 1.0 s	SDI-12 version 1.3, RS-232, RS-485 (output options selected by configuring internal jumpers)	-45° to +50°C	<ul style="list-style-type: none"> ➤ ±0.75° (at -45° to 0°C) ➤ ±0.2° (at 0° to 50°C)
SR50ATH-L Sonic Distance Sensor with Heater and Temperature Sensor		< 1.0 s	SDI-12 version 1.3, RS-232, RS-485 (output options selected by configuring internal jumpers)	-45° to +50°C	<ul style="list-style-type: none"> ➤ ±0.75°C (at -45° to 0°C) ➤ ±0.2°C (at 0° to 50°C)

For comprehensive details, visit: www.campbellsci.com/water-level-stage-flow 



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