

AccuStage

water level sensor

- $\pm 0.1\%$ Full Scale level accuracy
- Vented for air pressure compensation
- Rugged Polyethylene-jacketed cable
- 0-2.5V analog & RS-485 digital output
- Stainless steel or titanium construction

The NexSens **AccuStage** vented water level sensor is a completely self-contained pressure transducer designed for use in a wide variety of environmental monitoring applications. **AccuStage** is ideally suited for measuring water level in weirs, flumes, small to large streams, ponds, lakes, irrigation channels, and groundwater wells. The sensor is installed in a fixed location below the minimum expected water level, and a cable containing the sensor signals and vent tube is connected to a data logger mounted above flood stage.

AccuStage measures the combined pressure exerted on it by the atmosphere and the head of water above it. A vent tube in the cable automatically corrects for changes in barometric pressure, and measured values are mathematically compensated for all linearity and temperature errors. With $\pm 0.1\%$ Full Scale accuracy, the **AccuStage** provides high performance and accuracy over a wide range of operating conditions. The housing is available with stainless steel or titanium construction.

The sensor features a plug-and-play interface to NexSens **iSIC** data loggers via 0-2.5 VDC analog or RS-485 digital output. Data collection options include direct-connect, landline phone, cellular, radio, Ethernet, WI-FI, and satellite telemetry. Each **iSIC** data logger simultaneously supports 8 analog inputs & 4 digital inputs for multi-sensor data logging capability. NexSens **iChart** Software is a Windows-based program for interfacing both locally (direct-connect) and remotely (through telemetry) to an **iSIC** data logger or network of data loggers.

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specifications

Sensor	Vented pressure transducer
Measurement Ranges	0 to 5 meters standard; Custom ranges from 1 to 275 meters
Accuracy	±0.1% Full Scale TEB
Operating Temperature	-10 to +80°C
Compensated Temperature	-10 to +80°C
Power Requirements	8 to 28 VDC
Outputs	0 to 2.5 VDC analog; RS-485 digital
Body Material	316L stainless steel; Titanium
Cable Type	Polyethylene-jacketed, vented & shielded
Cable Length	10, 20, & 30 meters standard; Custom lengths available
Sensor Length	109mm (4.29")
Sensor Diameter	21mm (0.825")
Warranty	1-year



parts list

Part #	Description
AS-SS-5-10	AccuStage vented level sensor, stainless steel, 0-5m water column, 10m cable
AS-SS-5-20	AccuStage vented level sensor, stainless steel, 0-5m water column, 20m cable
AS-SS-5-30	AccuStage vented level sensor, stainless steel, 0-5m water column, 30m cable
AS-T-5-10	AccuStage vented level sensor, titanium, 0-5m water column, 10m cable
AS-T-5-20	AccuStage vented level sensor, titanium, 0-5m water column, 20m cable
AS-T-5-30	AccuStage vented level sensor, titanium, 0-5m water column, 30m cable
3100-MAST	Mast-mounted 3100-iSIC data logging system with cellular modem telemetry
4100-MAST	Mast-mounted 4100-iSIC data logging system with spread spectrum radio telemetry
6100-MAST	Mast-mounted 6100-iSIC data logging system with Iridium satellite telemetry
1001	iChart Software for Windows-based computers



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