

# Leveline

Water Level • Temperature • Conductivity • Salinity  
Full range now in titanium



 **AQUAREAD**  
water monitoring instruments

Leveline® - Community Trade Mark Registration No. 011713823

Leveline-CTD® - Community Trade Mark Registration No. 0161873380

# LevelLine-Mini

Water level and temperature SDI-12 sensor

## LevelLine-Mini

This mini water level and temperature sensor is also 22mm diameter and is made from the same corrosion resistant titanium as the larger LevelLine.

It outputs directly in SDI-12 or Modbus (RS-485) meaning you can connect it to any SDI-12 ready logging device as well as our AquaTelemetry system. It has no internal power or memory, it's simply a sensor that will send data to your chosen logging device.

The LevelLine-Mini is available as either gauge or absolute versions.

## LevelLine-Mini Features:

- Corrosion resistant titanium body
- Features a Delrin nose cone
- Uses the same Piezoresistive pressure sensor found in the LevelLine for highest accuracy
- Impressive accuracy of 0.05% FS
- Various cable lengths available to suit every deployment
- SDI-12 / Modbus output as standard
- Sensors come with a 2 year warranty



## LevelLine & LevelLine-Mini

### Mechanical Specification

	LevelLine (Gauge & Abs)	LevelLine-Mini
Dimensions (L x Dia)	186 x 22mm	87 x 22mm
Material	Titanium	Titanium
Memory and battery	Yes	No
Output options	SDI-12, Modbus, Proprietary	SDI-12, Modbus, Proprietary



# Specifications

		LEVELINE (Abs & Gauge)	LEVELINE - BARO	LEVELINE- MINI
General	Temperature ranges (non freezing)	Operational: -20-80° C (-4-176° F) Storage: -40-80° C (-40-176° F) Compensated: -20-80° C (-4-176° F)	Operational: -20-80° C (-4-176° F) Storage: -40-80° C (-40-176° F) Compensated: -20-80° C (-4-176° F)	Operational: -20-80° C (-4-176° F) Storage: -40-80° C (-40-176° F) Compensated: -20-80° C (-4-176° F)
	Diameter	22mm (0.866 in)	22mm (0.866 in)	22mm (0.866 in)
	Length	186mm (7.32 in)	186mm (7.32 in)	87mm (3.43 in)
	Weight	150g (5.3oz)	160g (5.6oz)	120g (4.2oz)
	Materials	Titanium body, Delrin nose cone	Titanium body, Delrin nose cone	Titanium body, Delrin nose cone
	Output options	Modbus/RS485, SDI-12, Aquaread proprietary	Modbus/RS485, SDI-12, Aquaread proprietary	Modbus/RS485, SDI-12, Aquaread proprietary
	Battery type & life	3.6V lithium; up to 10 years (see note 1)	3.6V lithium; up to 10 years (see note 1)	N/A
	External power	6 - 24 VDC	6 - 24 VDC	6 - 24 VDC

Memory	Size	8.0 MB	2.0 MB	N/A
	Data Records	500,000	150,000	N/A
	Log types	Linear, Event & User-Selectable Schedule with Future Start, Future Stop, Deploy Start and Real Time View	Linear, Event & User-Selectable Schedule with Future Start, Future Stop, Deploy Start and Real Time View	N/A
	Fastest logging rate & Modbus rate	10 per second	1 per minute (logging) 5 per second (Modbus)	10 per second (Modbus Rate)
	Fastest SDI-12 output rate	1 per second	1 per second	1 per second
	Real-time clock	Accurate to 1 second/24-hr period (± 6 minutes/year)	Accurate to 1 second/24-hr period (± 6 minutes/year)	N/A

Pressure Sensor	Type / Material	Piezoresistive; ceramic		Piezoresistive; ceramic	Piezoresistive; ceramic	
	Range (Absolute)	10.0m (32.8 ft) 50.0m (164 ft),	20.0m (65.6 ft) 100m (326 ft)	0 to 16.7 psi; 0 to 1.15 bar	10.0m (32.8 ft) 50.0m (164 ft),	20.0m (65.6 ft) 100m (326 ft)
	Range (Gauge)	10.0m (32.8 ft) 50.0m (164 ft),	20.0m (65.6 ft) 100m (326 ft)	N/A	10.0m (32.8 ft) 50.0m (164 ft),	20.0m (65.6 ft) 100m (326 ft)
	Maximum pressure	Max 2x range, Burst 2.5x range		Max 2x range, Burst 2.5x range	Max 2x range, Burst 2.5x range	
	Accuracy @ 15° C (see note 2)	±0.05% FS		±0.1% FS	±0.05% FS	
	Accuracy (FS) (see note 3)	±0.1% FS		±0.2% FS	±0.1% FS	
	Resolution	0.002% FS or 1mm whichever is greater		0.1mb	0.002% FS or 1mm whichever is greater	
	Units of measure	Pressure: mbar (psi, kPa, bar, mmHg, inHg, cmH2O, inH2O, Level: in, ft, mm, cm and m available in LevelLink)		Pressure: mbar (psi, kPa, bar, mbar, mmHg, inHg, cmH2O and inH2O available in LevelLink)	Pressure: mbar (psi, kPa, bar, mmHg, inHg, cmH2O, inH2O, Level: in, ft, mm, cm and m available in LevelLink)	

Temperature Sensor	Accuracy	±0.1° C	±0.1° C	±0.1° C
	Resolution	0.01° C	0.01° C	0.01° C
	Output Units	Celsius (fahrenheit available in LevelLink)	Celsius (fahrenheit available in LevelLink)	Celsius (fahrenheit available in LevelLink)

Notes: 1) Dependent on logging rate. 2) Across factory-calibrated pressure range at a constant temperature. 3) Across factory-calibrated pressure and temperature ranges