# Water Level • Temperature • Conductivity • Salinity

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EVELINE



LeveLine® - Community Trade Mark Registration No. 011713823 Leveline-CTD® - Community Trade Mark Registration No. 0161873380

## LeveLine-Mini-CTD

Water level, temperature, conductivity and salinity SDI-12 sensor

### LeveLine-Mini-CTD



The LeveLine-Mini-CTD adds conductivity and salinity measurements to the small SDI-12 ready sensor. Like the standard LeveLine-Mini, the CTD version is housed in a titanium body making it suitable for deployment in both fresh and salt waters. It also features the same titanium connector as the larger LeveLine loggers. The connector allows the unit to be connected to your PC or to the GPS LeveLine Meter to calibrate the conductivity sensor.

The LeveLine-Mini-CTD is available in both absolute and gauge versions. If your chosen datalogger / telemetry device includes a built-in air pressure sensor, we recommend the absolute version as the logging device can utilise the air pressure reading for compensation. If an air pressure sensor is unavailable then the gauge version is best suited for telemetric logging.

Gauge sensors require vented cables and desiccant cartridges to remove any moisture from the vent to prevent blocking and inaccurate compensation.

#### LeveLine-CTD & LeveLine-Mini-CTD

Mechanical Specification

	LeveLine-CTD	LeveLine-Mini-CID
Dimensions (L x Dia)	260 x 22 mm	146 x 22mm
Material	Titanium	Titanium
Memory and battery	Yes	No
Output options	SDI-12, Modbus, Proprietary	SDI-12, Modbus, Proprietary

## Specifications

		LeveLine-CTD	LeveLine-Mini-CTD	
GENERAL	Temperature ranges	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	22mm	
	Length	260mm	146mm	
	Weight	250g	210g	
	Materials	Titanium body, Delrin nose cone	Titanium body, Delrin nose cone	
	Output options	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)	N/A	
	External power	6 - 24 VDC	6 - 24 VDC	
	Size	8.0 MB	N/A	
	Data records	500,000 Linear, Event & User-Selectable Schedule with Future	N/A	
MEMORY	Log types	Start, Future Stop, Deploy Start and Real Time View	N/A	
	Fastest logging rate & Modbus rate	1 per second	1 per second	
	Fastest SDI-12 output rate	1 per second	1 per second	
	Real-time clock	Accurate to 1 second/24-hr period (± 6 minutes/year)	N/A	
	Type / Material	Piezoresistive; ceramic	Piezoresistive; ceramic	
	Range (Gauge &	10.0M (32.8 ft) 50.0M (164 ft),	10.0M (32.8 ft) 50.0M (164 ft),	
SENSOR	Absolute)	20.0M (65.6 ft), 100M (326 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	
	Accuracy @ 15° C (note 2)	±0.05% FS	±0.05% FS	
	Accuracy (FS) (note 3)	±0.1% FS	±0.1% FS	
	Resolution	0.002% FS or 1mm whichever is greater	0.002% FS or 1mm whichever is greater	
	Units of measure	Pressure: mbar (psi, kPa, bar, mbar, mmHg, inHg, cmH2O, inH2O, Level: in, ft, mm, cm and m available in LeveLink	Pressure: mbar (psi, kPa, bar, mbar, mmHg, inHg, cmH2O, inH2O, Level: in, ft, mm, cm and m available in LeveLink	
cal ivity	Range	0 - 200mS/cm (0 - 200,000µS/cm)	0 - 200mS/cm (0 - 200,000µS/cm)	
Electric	Resolution	1μS	1μS	
Electric	Accuracy	± 1% reading or ±1µS whichever is greater (see note 5)	± 1% reading or ±1µS whichever is greater (see note 5)	
Salinity [note 4]	Denge		0 - 70 PSU / 0 - 70 ppt (g/Kg)	
	Range Resolution	0 - 70 PSU / 0 - 70 ppt (g/Kg) 0.01PSU / 0.01 ppt	0.01PSU / 0.01 ppt (g/ Kg)	
	Accuracy	±1% reading or ± 0.1 unit if greater	±1% reading or ± 0.1 unit if greater	
Temperature sensor	Accuracy & resolution	±0.1° C; 0.01° C	±0.1° C; 0.01° C	
	Units of measure	Celsius (fahrenheit available in LeveLink)	Celsius (fahrenheit available in LeveLink)	
Warranty	Standard	2 years	2 years	
	Extended	Options Available	Options Available	
		-calibrated pressure range at a constant temperature		

Notes: 1) Dependent on logging rate. 2) Across factory-calibrated pressure range at a constant temperature. 3) Across factory-calibrated pressure and temperature ranges. 4) Readings calculated from EC and temperature values. 5) At the calibration point at 25°C