





# Technical Specifications

WATER LEVEL	Measuring range	0 ... 4 m water column / 0 ... 0.4 bar	0 ... 13 ft water column / 0 ... 5.8 psi
		0 ... 10 m water column / 0 ... 1 bar	0 ... 33 ft water column / 0 ... 14.5 psi
		0 ... 20 m water column / 0 ... 2 bar	0 ... 66 ft water column / 0 ... 29 psi
		0 ... 40 m water column / 0 ... 4 bar	0 ... 131 ft water column / 0 ... 58 psi
		0 ... 100 m water column / 0 ... 10 bar	0 ... 328 ft water column / 0 ... 145 psi
	Resolution	0.001 m / 0.1 cm / 0.0001 bar	0.01 ft / 0.1 inch / 0.001 psi
	Accuracy (linearity + hysteresis)	± 0.05 % full scale	
	Long-term stability (linearity + hysteresis)	± 0.1 %/a full scale	
	Units	m / cm / bar	ft / inch / psi
	Pressure sensor	Ceramic / temperature compensated	
Temperature-compensated operating range	-5 °C (ice-free) ... +45 °C	+23 °F (ice-free) ... +113 °F	
TEMPERATURE	Measuring range	-25 °C ... +70 °C	-13 °F ... +158 °F
	Resolution	0.01 °C	0.02 °F
	Accuracy	± 0.1 °C	± 0.2 °F
	Units	°C	°F
CONDUCTIVITY (OPTIONAL)	Measuring range	5 ... 100 000 µS/cm	
	Calibrated range	+5 °C ... 45 °C	+41 °F ... +113 °F
	Resolution	1 µS/cm (5 ... 2000 µS/cm) - 0.01 mS/cm (0.10 ... 100.00 mS/cm)	
	Accuracy	±0.5 % of measured value (at least ± 1 µS/cm) (5 ... 2000 µS/cm) ±1.5 % of measured value (at least ±0.01 mS/cm) (0.10 ... 100.00 mS/cm)	
	Units	mS/cm · µS/cm	
POWER	Power supply	3.6 V / 26 Ah - Lithium power pack with connector	
	Battery life time - configuration depending	> 10 years @ average temperature of 20 °C/68 °F, 1 hour sampling and 1 transmission per day (> 5 years with conductivity variant)	
RTC CLOCK	Accuracy	± 26 s / month (at 25 °C) / < ± 3 s using SNTP	± 26 s / month (at 77 °F) / < ± 3 s using SNTP
COMMUNICATION	Cellular 4G/2G (EU)	LTE Cat-1; B3 (1800 MHz), B8 (900 MHz), B20 (800 MHz); GSM, GPRS, EDGE; 900 MHz, 1800 MHz	
	Cellular LTE-M (Cat-M1; Global)	B1, B2, B3, B4, B5, B8, B9, B10, B12, B13, B17, B18, B19, B20, B25, B26, B27, B28, B66	
	Local communication	Bluetooth Low Energy (BLE) 5.0 - up to 10 m (free line of sight)	
MEASUREMENT	Measured values	Water pressure & temperature	RSSI / Signal strength
		Conductivity (optional)	PBAT / Power consumption battery
		Supply voltage	Logger Humidity
	Derived values	Water level / depth to water	Salinity & Total Dissolved Solids (optional)
	Sample/storage interval	5 s / 10 s* ... 24 h	
DATA TRANSMISSION	Interval	1 min ... 1/week, 15 min ... 1/week for SMS	
	IP COM	FTP, FTPS, HTTP, HTTPS (TLS 1.2), MQTT, MQTTS	
DATA MEMORY	Measurement memory	28 MB (approx. 1,000,000 values)	
ENVIRONMENTAL	Temperature range, operating	-30 °C ... +85 °C	-22 °F ... +185 °F
	Temperature range, storage	-40 °C ... +85 °C	-40 °F ... +185 °F
	Humidity	5% ... 95 % (non-condensing)	
	IP rating logger unit	IP 67 (flood-proof up to 1 week / 1 m water column)	
	IP rating pressure probe	IP68	
DIMENSIONS	Logger unit	LxD: 525 x 50 mm (2")	LxD: 20.7 x 2.0 inch
	Pressure probe	LxD: 195 x 22 mm (<1"), 317 mm x 22 mm*	LxD: 7.7 x 0.9 inch, 12.5 x 0.9 in*
	System length	0 ... 200 m (> 200 m on request)	0 ... 656 ft (> 656 ft on request)
WEIGHT	Logger unit incl. battery pack	~ 900 g	~ 31.7 oz
	Pressure probe	~ 300 g, 420 g*	~ 10 oz, 13.8 oz*
	Pressure probe cable	~ 42 g/m, 82 g/m*	~ 0.45 oz/ft, 0.9 oz/ft*
MATERIAL	Pressure probe housing	Stainless steel 1.4539 (904 L)	
	Logger housing	Aluminum / PA-GF	
	Cable jacket	PUR	
REGULATORY	FCC / IC / CE / ACMA	   	
	PTCRB	According to NAPRD03	
	Provider certifications	Verizon Open Development Certification, AT&T IoT Device Certification	

\*Device variant with integrated conductivity sensor  
Please check website for country availability.