



## Water Quality Measurement Instrument

- **Product type**  
Attended, Unattended
- **Parameters measured**  
Temperature, Conductivity, Depth, pH, Dissolved Oxygen (LDO), Turbidity, ORP, Blue-Green Algae, Chlorophyll a, Ammonium, Nitrate, Chloride
- **Product Highlights**  
The next generation multiparameter water quality instrument
- **Interface**  
SDI-12, RS-485, RS-232, TTY, USB

The HYDROLAB HL7 multiparameter sonde offers a versatile, durable and practical solution to the day to day needs of monitoring programs for both simple and complex deployments. With a large sensor suite, it is able to thrive in demanding environmental conditions for long term continuous and profile monitoring.

Bio-fouling is minimized when equipped with the central cleaning brush and performance is maximized with an advanced power management system. It has a temperature sensor, seven external sensor ports and an optional internal depth sensor.

It helps our customers to correctly log data autonomously and easily integrate into real time telemetry systems.

Available for purchase through July 31, 2026.

# Technical Data

Hydrolab HL7 - Multiparameter Sonde



<b>Sensor Ports</b>		<b>9 sensor ports available</b>
Dimensions	Diameter: 8.9 cm (3.5 in.) without rubber bumpers; 9.8 cm (3.85 in.) with rubber bumpers	
Length:	66.4 cm (26.1 in.)	
Weights	4.5 kg (10 lb) with four Dcell batteries, storage/calibration cup with no liquid	
<b>Power Requirements</b>		<b>6...24 VDC (12 VDC nominal) applied to the communications module, 12 VDC:2.0 W average, 24 W peak</b>
<b>Battery Life*</b>		<b>90 days</b>
Operating Temperature	-5 to 50 °C (23 to 122 °F), nonfreezing	
Storage Temperature	1 to 50 °C (34 to 122 °F)	
<b>Depth</b>		<b>200 m (656 ft) maximum</b>
Data Memory	4 GB	
Tensile strength	(Maximum) Mooring cap: 68 kg (150 lb); deployment cable: 227 kg (500 lb)	
<b>Communications</b>		<b>Communications module: USB, SDI12,RS232 Modbus, RS485 Modbus and RS232 TTY</b>
Sampling Rate	1 Hz minimum, (once per second)	