



## 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.

# 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)  |  |