



HYDROLAB HL7 Sonde, Temperature, Internal Battery Power, Other Integrated Sensors

Product Number: HL7TABATT

Number of Analog Ports

4 7

Battery?

No Yes

Price: Contact Us

Markets:

- Surface Water
- Nutrient Monitoring
- Source Water
- HydroMet

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. The HL7 sonde with a large sensor suite is able to thrive in demanding environmental conditions for long term continuous monitoring. Bio-fouling is minimized when equipped with the central cleaning brush and performance is maximized with an advanced power management system. The HL7 sonde has a temperature sensor, seven external sensor ports and an optional internal depth sensor. It helps environmental scientists to correctly log data autonomously and easily integrate into real time telemetry systems. The HYDROLAB

Operating Software streamlines data collection and calibration tasks necessary to validate accurate data. Calibration logs and metadata are also available to help with QA/ QC requirements.

Benefits

Peace of mind

Ready to use for long deployments with a self-monitoring system that reports the status of the instrument. The antifouling sensor cleaning brush significantly extends field use and decreases bio fouling.

Long-lasting

Designed to withstand the heavy everyday use of demanding field deployments and has a typical battery life capable of greater than 90 days deployment to help ensure maximum performance.

Field proven sensor measurement technology for data continuity

Durable sensor suite helps maintain a cost-effective water quality monitor, and the long-term stability and accuracy is achieved with the central wiper and brush. The serviceable pH reference sensor helps reduce maintenance costs over time.

Customizable

Five optical sensor ports offer greater sensor choice for different monitoring applications.

Traceability of measurements to boost confidence in results

Includes guided calibration routines which increase efficiencies, and safeguard field measurements with smarter verification methods. The sensor's diagnostics and metadata information also validate measurements, and there is a reduced risk of errors with calibration history information.

Specifications

Technical Attributes

Battery Life	90 days
Communication	Communications module: USB, SDI-12, RS232 Modbus, RS485 Modbus and RS232 TTY
Dimensions	Ø 3.5 in (8.9 cm) without rubber bumpers Ø 3.9 in (9.8 cm) with rubber bumpers Length: 26.2 in (66.4 cm)
Measuring Range Depth	656 ft (200 m) minimum

Memory	4GB
Number of Analog Ports	7
Operating Temperature Range	23 - +122 °F , non-freezing
Power Supply	6 - 24 VDC (12 VDC nominal) applied to the communications module, 12 VDC: 2.0 W average, 24 W peak
Sample Rate	1 Hz minimum, (once per second)
Sensor Ports	9 sensor ports available 2 fixed sensor ports for temperature and optional depth sensor only 7 ports for integrating other sensor options Parameters available depends on sensor installed Maximum of 5 ports available for optical dissolved oxygen and 4 an-other optical sensors
Standard storage temperature	34 - +122 °F (1 - +50 °C)
Weight	9.9 lb (4.5 kg)

Resources

Language

English US (15)
▼


Application Notes (3)

<p>OTT Case Study - HYDRO-LAB University of Iowa</p> <p>OTT Case Study - HYDROLAB University of Iowa</p> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;"> <div style="display: flex; align-items: center;"> Application Notes </div> <div style="text-align: right;">180209</div> </div> <p style="font-size: small; margin-top: 5px;">(0.19 MB)</p>	<p>OTT Case Study Nutrient Monitoring in Northern Florida</p> <p>OTT Case Study Nutrient Monitoring in Northern Florida</p> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;"> <div style="display: flex; align-items: center;"> Application Notes </div> <div style="text-align: right;">1206</div> </div> <p style="font-size: small; margin-top: 5px;">(0.46 MB)</p>	<p>HYDROLAB Guide Measuring Nitrate in Puget Sound Using Optical Sensors</p> <p>HYDROLAB Guide Measuring Nitrate in Puget Sound Using Optical Sensors</p> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;"> <div style="display: flex; align-items: center;"> Application Notes </div> <div style="text-align: right;">200129</div> </div> <p style="font-size: small; margin-top: 5px;">(0.41 MB)</p>
---	--	--

Brochures (1)

Sutron Brochure - Bench Service Partnership


Sutron Brochure - Bench Service Partnership

 Brochures 190228
(2.39 MB)

Guides (7)


HYDROLAB Guide Water Quality Selection Guide

HYDROLAB Guide Water Quality Selection Guide

 Guides 120301
(1.18 MB)

OTT Guide - Top 5 Water Quality Parameters

OTT Guide - Top 5 Water Quality Parameters

 Guides 180601
(0.30 MB)

OTT - Water Quality - Continuous Installation Guide

OTT - Water Quality - Continuous Installation Guide

 Guides 190101
(13.27 MB)

HYDROLAB Guide Nutrient Trends Comparison

HYDROLAB Guide Nutrient Trends Comparison

 Guides 200129
(0.92 MB)

HYDROLAB Guide Why is Phytoplankton Measurement Important

HYDROLAB Guide Why is Phytoplankton Measurement Important

 Guides 200129
(0.45 MB)

Water Quality Instrument Selection Guide from OTT

Water Quality Instrument Selection Guide from OTT

 Guides 2018
(1.21 MB)

Top Five Parameters - Generate Critical Water Quality Insights

Top Five Parameters - Generate Critical Water Quality Insights

 Guides 2018
(0.29 MB)

Manuals (1)

HL Series Sonde - Bedienungsanleitung | User Manual | Manuel d'utilisation | Manual de

usuario - Manual - Multilanguage

DOC026.97.80348



Manuals
(2.67 MB)

04/2017,
Edition
2

Other (1)

Frequently Asked Questions about the HYDROLAB ISE Sensors

List of Frequently Asked Questions about the HYDROLAB ISE Sensors



Other
(0.14 MB)

210115

White Papers (2)

HYDROLAB Whitepaper Water Quality Q and A



White Papers
(0.51 MB)

170101

Quality Assurance and Quality Control Technical Note

Quality Assurance and Quality Control Technical Note



White Papers
(0.51 MB)

170101

Videos



Optional Accessories



SVRHL

**HYDROLAB
Surveyor HL.**

Price: Contact Us



HL100MDEPTH

**HYDROLAB Depth
Sensor for HL
Series Sonde, 328
ft**

Price: Contact Us



HL200MDEPTH

**HYDROLAB Depth
Sensor for HL
Series Sonde, 656
ft**

Price: Contact Us



HL25MDEPTH

**HYDROLAB Depth
Sensor for HL
Series Sonde, 82 ft**

Price: Contact Us



HLBGRNA

**HYDROLAB
Phycocyanin
Sensor for HL7
Series Sonde,
Stainless Steel
Housing**

Price: Contact Us



HLBGRNAMA

**HYDROLAB
Phycoerythrin
Sensor for HL7
Series Sonde,
Stainless Steel
Housing**

Price: Contact Us



HLBGRNAMATII

**HYDROLAB
Phycoerythrin
Sensor for HL7
Series Sonde,
Titanium Housing**

Price: Contact Us



HLCHLOR

**HYDROLAB
Chlorophyll a
Sensor for HL7
Series Sonde,
Stainless Steel
Housing**

Price: Contact Us



HLCL

**HYDROLAB
Chloride ISE
Sensor for HL
Series Sonde**



HLCOND

**HYDROLAB
Conductivity
Sensor for HL
Series Sonde**



HLLDO

**HYDROLAB
Luminescent
Dissolved Oxygen
(LDO) Sensor for
HL Series Sonde**



HLMOTOR_BRUSH

**HYDROLAB Central
Cleaning Brush
Probe for HL7
Series Sonde, Non-
Turbidity**

Price: Contact Us



HLNH4

HYDROLAB Ammonium ISE Sensor for HL Series Sonde

Price: Contact Us



HLNO3

HYDROLAB Nitrate ISE Sensor for HL Series Sonde

Price: Contact Us



HLPHIREF

HYDROLAB pH Sensor for HL Series Sonde with Integrated Reference

Price: Contact Us



HLPHORPIREF

HYDROLAB pH and ORP Sensor for HL Series Sonde with Integrated Reference

Price: Contact Us



HLPHORPSREF

HYDROLAB pH and ORP Sensor for HL Series Sonde with Standard Reference

Price: Contact Us



HLPHSREF

HYDROLAB pH Sensor for HL Series Sonde with Standard Reference

Price: Contact Us



HLRHOD

HYDROLAB Rhodamine Sensor for HL7 Series Sonde, Stainless Steel Housing

Price: Contact Us



HLRHODTII

HYDROLAB Rhodamine Sensor for HL7 Series Sonde, Titanium Housing

Price: Contact Us



HLTURB_SC_BRUSH

HYDROLAB Turbidity Sensor for HL7 Series Sonde with Central Cleaning Brush

Price: Contact Us



CZL002

HYDROLAB Field Cable, HL Series, lightweight, 2 m

Price: Contact Us



CZL005

HYDROLAB Field Cable, HL Series, lightweight, 5 m

Price: Contact Us



CZL010

HYDROLAB Field Cable, HL Series, lightweight, 10 m

Price: Contact Us

Price: Contact Us

Price: Contact Us

Price: Contact Us



CZL015

HYDROLAB Field Cable, HL Series, lightweight, 15 m



CZL025

HYDROLAB Field Cable, HL Series, lightweight, 25 m



CZL030

HYDROLAB Field Cable, HL Series, lightweight, 30 m



CZL050

HYDROLAB Field Cable, HL Series, lightweight, 50 m

Price: Contact Us

Price: Contact Us

Price: Contact Us

Price: Contact Us



CZL075

HYDROLAB Field Cable, HL Series, lightweight, 75 m



CZL100

HYDROLAB Field Cable, HL Series, lightweight, 100 m

CZL150

HYDROLAB Field Cable, HL Series, lightweight, 150 m

CZL200

HYDROLAB Field Cable, HL Series, lightweight, 200 m

Price: Contact Us

Price: Contact Us

Price: Contact Us

Price: Contact Us