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HYDROLAB HL4 Sonde, Temperature, Other Integrated Sensors

Product Number: HL4TANOBATT



Number of Analog Ports

4

7

Battery?

No

Yes

Price: Contact Us

The HYDROLAB HL4 is perfectly suited for spot monitoring or continuous deployments in a wide range of freshwater applications. Lightweight, portable and flexible, this multi-parameter sonde helps you quickly monitor watershed conditions. The field proven sensor options coupled with the robust construction and easy calibration delivers high quality reliable data. The HL4 sonde has a temperature sensor, four sensor ports and an optional internal depth sensor. The software allows for easy data retrieval and setup of logging files.

Markets:

- Nutrient Monitoring
- Source Water
- Surface Water
- HydroMet

Ease of portability between sites and installation

The sonde's lightweight and compact design readily accesses difficult locations and fits inside protective housing -2" wells. Its durable design provides long term usage for a variety of applications.

Perfect for spot monitoring and short-term monitoring studies

Includes an internal memory of 4GB for logging data plus an optional internal battery pack, and flexible for many applications.

Easy to use instrument management and control software

Has guided calibration tasks and instructions, plus real time measurements in graphical and tabular formats.

Specifications

Technical Attributes

Battery Life	75 days
Communication	Communications module: USB, SDI-12, RS232 Modbus, RS485 Modbus and RS232 TTY
Dimensions	Ø 1.75 in (Ø 4.44 cm) without rubber bumpers Ø 2.1 in (5.33 cm) with rubber bumpers Length: 20.25 in (51.43 cm) with standard sensor guard
Measuring Range Depth	656 ft (200 m) minimum
Memory	4GB
Number of Analog Ports	4
Operating Temperature Range	23 - +122 °F , non-freezing
Power Supply	6 - 24 VDC (12 VDC nominal) applied to the communications module, 12 VDC: 250 mW average, 18 W peak
Sample Rate	1 Hz minimum, (once per second)
Sensor Ports	6 sensor ports available 2 fixed sensor ports for temperature and optional depth sensor only 4 ports for integrating other sensor options Parameters available depends on sensor installed Maximum of 2 ports available for optical dissolved oxygen and another optical sensor
Standard storage temperature	34 - +122 °F (1 - +50 °C)

Resources

Language

English US (15)

Application Notes (3)

OTT Case Study - HYDRO-LAB University of Iowa

OTT Case Study - HYDROLAB University of Iowa



Application Notes 180209 (0.19 MB)

OTT Case Study Nutrient Monitoring in Northern Florida

OTT Case Study Nutrient Monitoring in Northern Florida



Application Notes 1206 (0.46 MB)

HYDROLAB Guide Measuring Nitrate in Puget **Sound Using Optical** Sensors

HYDROLAB Guide Measuring Nitrate in Puget Sound Using Optical Sensors



Application Notes 200129 (0.41 MB)

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 (0.92 MB)

200129

2001

HYDROLAB Guide Why is Phytoplankton Measurement Important

HYDROLAB Guide Why is Phytoplankton Measurement Important



Guides (0.45 MB) 200129

Water Quality Instrument Selection Guide from OTT

Water Quality Instrument Selection Guide from OTT



Guides (1.21 MB) 2018

Top Five Parameters - Generate Critical Water Quality Insights

Top Five Parameters - Generate Critical Water Quality Insights



Guides (0.29 MB) 2018

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 HYDRO-LAB 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

Z

White Papers (0.51 MB)

170101

Quality Assurance and Quality Control Technical Note

Quality Assurance and Quality Control Technical Note



White Papers

170101

(0.51 MB)

Videos

















SVRHL

HYDROLAB Surveyor HL.



HL100MDEPTH

HYDROLAB Depth Sensor for HL Series Sonde, 328 ft



HL200MDEPTH

HYDROLAB Depth Sensor for HL Series Sonde, 656 ft



HL25MDEPTH

HYDROLAB Depth Sensor for HL Series Sonde, 82 ft

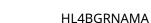
Price: Contact Us Price: Contact Us Price: Contact Us Price: Contact Us



HL4BGRNA

HYDROLAB
Phycocyanin
Sensor for HL4
Series Sonde,
Stainless Steel
Housing, Extended
Stem

Price: Contact Us



HYDROLAB
Phycoerythrin
Sensor for HL4
Series Sonde,
Stainless Steel
Housing, Extended
Stem

Price: Contact Us



HYDROLAB
Chlorophyll a
Sensor for HL4
Series Sonde,
Stainless Steel
Housing, Extended
Stem

Price: Contact Us



HYDROLAB
Rhodamine Sensor
for HL4 Series
Sonde, Stainless
Steel Housing,
Extended Stem

Price: Contact Us



HL4TURB

HYDROLAB Turbidity Sensor for HL4 Series Sonde

Price: Contact Us



HLCL

HYDROLAB Chloride ISE Sensor for HL Series Sonde

Price: Contact Us



HLCOND

HYDROLAB Conductivity Sensor for HL Series Sonde

Price: Contact Us



HLLDO

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

Price: Contact Us



HLNH4

HYDROLAB Ammonium ISE Sensor for HL Series Sonde



HLNO3

HYDROLAB Nitrate ISE Sensor for HL Series Sonde



HLPHIREF

HYDROLAB pH Sensor for HL Series Sonde with Integrated Reference



HLPHORPIREF

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

Price: Contact Us Price: Contact Us Price: Contact Us Price: Contact Us





CZL200

HYDROLAB Field Cable, HL Series, lightweight, 200 m

Price: Contact Us