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

Benefits

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)

Weight	4.6 lb (2.1 kg)

Resources

Language

English US (15) ⌄

Application Notes (3)

OTT Case Study - HYDROLAB University of Iowa

OTT Case Study - HYDROLAB University of Iowa

📄 Application Notes (0.19 MB)   180209

OTT Case Study Nutrient Monitoring in Northern Florida

OTT Case Study Nutrient Monitoring in Northern Florida

📄 Application Notes (0.46 MB)   1206

HYDROLAB Guide Measuring Nitrate in Puget Sound Using Optical Sensors

HYDROLAB Guide Measuring Nitrate in Puget Sound Using Optical Sensors

📄 Application Notes (0.41 MB)   200129

Brochures (1)

Sutron Brochure - Bench Service Partnership

Sutron Brochure - Bench Service Partnership

📄 Brochures (2.39 MB)   190228

Guides (7)

HYDROLAB Guide Water Quality Selection Guide

HYDROLAB Guide Water Quality Selection Guide

📄 Guides (1.18 MB)   120301

OTT Guide - Top 5 Water Quality Parameters

OTT Guide - Top 5 Water Quality Parameters

📄 Guides (0.30 MB)   180601

OTT - Water Quality - Continuous Installation Guide

OTT - Water Quality - Continuous Installation Guide

📄 Guides (13.27 MB)   190101

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** 04/2017,
(2.67 MB) Edition 2

Other (1)

Frequently Asked Questions about the HYDROLAB ISE Sensors

List of Frequently Asked Questions about the HYDROLAB ISE Sensors

📄 **Other** 210115
(0.14 MB)

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

HL4BGRNA

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

Price: Contact Us

HL4BGRNAMA

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

Price: Contact Us

HL4CHLOR

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

Price: Contact Us

HL4RHOD

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

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

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

CZL015

HYDROLAB Field Cable, HL Series, lightweight, 15 m

Price: Contact Us

CZL025

HYDROLAB Field Cable, HL Series, lightweight, 25 m

Price: Contact Us

CZL030

HYDROLAB Field Cable, HL Series, lightweight, 30 m

Price: Contact Us

CZL050

HYDROLAB Field Cable, HL Series, lightweight, 50 m

Price: Contact Us

CZL075

HYDROLAB Field Cable, HL Series, lightweight, 75 m

Price: Contact Us

CZL100

HYDROLAB Field Cable, HL Series, lightweight, 100 m

Price: Contact Us

CZL150

HYDROLAB Field Cable, HL Series, lightweight, 150 m

Price: Contact Us

CZL200

HYDROLAB Field Cable, HL Series, lightweight, 200 m

Price: Contact Us