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HOBOnet Water Level Sensor Interface

Product Images



Short Description

A wireless sensor interface that works with the HOBOnet system for remote water level monitoring. The HOBOnet water level sensor interface features a pre-configured, easily deployed wireless sensor that communicates accurate, reliable water level data directly to a HOBO RX3000 or HOBO MicroRX station, the core component of the HOBOnet remote monitoring system.

Description

Overview

The HOBOnet water level sensor interface features a pre-configured, easily deployed wireless sensor that communicates accurate, reliable water level data directly to a HOBO RX3000 or HOBO Micro RX2105/RX2106

station, the core component of the HOBOnet remote monitoring system.

HOBOnet is a cost-effective, scalable, user-friendly wireless sensor network that lets you streamline data retrieval by effortlessly monitoring multiple wells with a single cellular device. Data is accessed from anywhere, at any time, through the customizable dashboard in HOBOlink, Onset's innovative cloud software platform – eliminating the need for frequent site visits that are both time-consuming and costly. HOBOlink also sends automatic, real-time text/email notifications to alert you of any sensor or system alarms, providing the insights you need to make informed decisions, react quickly to stay ahead of issues, and ensure compliance.

Other Benefits:

- User-friendly setup process
- A proven water level sensor for accurate, reliable readings
- Rechargeable batteries and built-in solar panel eliminate downtime
- Real-time insights via customised dashboards in HOBOlink, leaving delays in the past
- No data loss due to user error, with temperature-compensated pressure readings for accurate, reliable information
- HOBOlink cloud dashboards for in-depth data analysis and smarter decision-making
- Kevlar-reinforced cable with integrated strain relief mechanism.

Key Features

Sensor Features

- Non-vented design reduces maintenance
- Durable, ceramic sensor can withstand freezing
- 3-point NIST-traceable calibration certificate

Wireless Features

- Sub-GHz wireless mesh self-healing technology for expansive coverage
- 450 to 600 meter (1,500 to 2,000 feet) wireless range and up to five hops
- Up to 50 wireless sensors or 336 data channels per one HOBO RX station
- Simple button-push to join the HOBOnet wireless network
- Onboard memory to ensure no data loss
- Powered by rechargeable AA batteries and built-in solar panel.

IMPORTANT

A complete system requires at least one HOBOnet Water Level Sensor, a direct read cable, and a HOBO RX3000 Remote Monitoring Station and HOBOnet Wireless Manager (or a HOBO Micro RX2105/RX2106 Station with an integrated HOBOnet Wireless Manager). HOBOnet Wireless Repeaters (RXW-RPTR-868 or RXW-RPTR-B-868) can be added to extend the range.

Additional Information

Extension	Statistics
	Water Level Accuracy* Typical error: 2015% H5, 0.3 cm (0.01 ft) water Maximum error: 20.15% H5, 0.3 cm (0.01 ft) water Maximum error: 20.15% H5, 0.6 cm (0.02 ft) water Resolution 600 ft) Accuracy* Resolution 600 ft) Accuracy* Resolution 600 ft) Accuracy* 800 ft) Accuracy* 600 ft) A
	10.2 kP (12020 pi) over multemperature range at riske pressure; maximum error 10.5% iS 10.2 kP (12020 pi) over multemperature range at riske pressure; maximum error 10.5% iS Maximum error: 10.15% iS, 0.6 cm (0.02 ft) water Resolution 4.01 iF # 0.0015 pi) Response Time temperature stability (ourfi) 4.01 iF # 0.0015 pi) per year Temperature Measurements (All Sensor End Models MX2001-0x-SS-S and MX2001-0x-Ti-S) Operation Range -20° to 50° (-4° to 122°) 4.04 cmap 4.04 cma
Ideal For	Professional
Brand	Onset HOBO
Onset Product Series	MX2000
Typical applications	Environmental (Outdoor), Field Research
Measurements	Barometric Pressure, Differential Pressure, Pressure, Temperature, Water Level, Water Temperature

Additional Options

Cable Length	5 Metres (CABLE-DR-05)
	10 Metres (CABLE-DR-10)
	15 Metres (CABLE-DR-15)
	30 Metres (CABLE-DR-30)
	60 Metres (CABLE-DR-60)
Select Water Level Sensor Required	Fresh Water Stainless Steel - 4 Metre Range (MX2001-04-S)
	Fresh Water Stainless Steel - 9 Metre Range (MX2001-01-S)
	Fresh Water Stainless Steel - 30 Metre Range (MX2001-02-S)
	Fresh Water Stainless Steel - 76 Metre Range (MX2001-03-S)
	Salt Water Titanium - 4 Metre Range (MX2001-04-Ti-S)
	Salt Water Titanium - 9 Metre Range (MX2001-01-Ti-S)
Well Cap for Mounting HOBO Loggers in Wells	WELL-CAP-01