LevelHub® HB01

Wireless Tank and Silo Level Monitor

FLOWLINE™ LEVEL BEST

Application

The LevelHub wireless, remote tank level monitoring gateway enables users to easily record, transmit, and view tank or silo data from a phone or browser, while sending alerts for high and low levels to keep stakeholders informed. The gateway periodically wakes to collect data via Bluetooth from up to four EchoBeam 80-GHz radar level sensors. Data is transmitted over the T-Mobile LTE-M network in the US and Canada or Vodafone in the EU and UK to Flowline's secure AWS cloud server, where it can be accessed through the LevelTap mobile App or the LevelHub.io website. Configuration is easy via the App, allowing users to grant view-only access to team members, set scan and transmission intervals, and enable SMS, email, voice or push notification alerts. Data is exportable in CSV, JSON or API formats. To start, purchase a battery or DC powered gateway, configure 1-4 sensors to it, and activate the data service by paying a subscription fee of $195 USD for 1-year on the website with a credit card.



Battery powered version



Features

- Transmits level, location, alerts and battery status
- Viewable on LevelTap App and LevelHub.io website
- Adjustable data scanning and transmission intervals
- Optional lithium battery lasts up to 8 years in service
- Secure data transmission with end-to-end encryption
- Easy to install, configure and run within 15 minutes
- PBT enclosure rated IP67 or IP66 for industrial use

Benefits

What's the cost of running out of chemicals, having full tanks awaiting pick-up, making inefficient truck deliveries or pick-ups, or expediting the above to your company, customers and suppliers? What if you could reliably measure, easily setup and securely share level data where and when it's needed with field and office stakeholders? Now you can with EchoBeam sensors, LevelHub gateways and the LevelTap App.

Battery Powered or DC Powered

LevelHub is available in battery powered and DC powered versions. Battery life depends on the configured scan and transmit intervals and on LTE-M signal quality. In factory default (where the gateway wakes to scan for data every 15 minutes and transmits data every 6 hours) the battery life exceeds 5 years with good signal quality. Thus shortening either interval reduces battery life, and increasing it extends battery life. Alternatively, the DC powered version ships with a power supply, and supports scan and transmit intervals as short as every 5 minutes.



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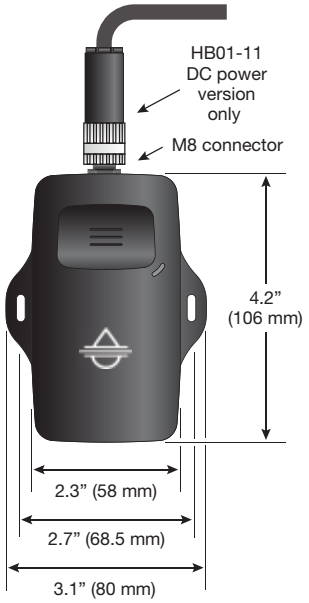
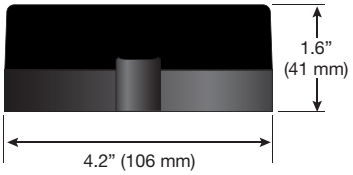
Specifications

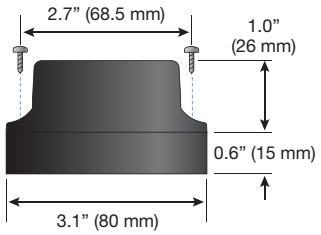
Wireless comm.:	Standard: CAT-NB2/CAT-M1 (Aka NB-IoT and LTE-M), BLE 5.x LTE-band: B2, B3, B8, B12, B20 software update over air (SUOTA) SIM-card: e-SIM
Cellular networks:	T-Mobile (US & Canada), Vodafone (EU & UK)
GNSS positioning:	GPS, GLONASS, Galileo, BeiDou
Power:	-01: 3.6V high power lithium manganese (Li-Mn) battery -11: 5-12 VDC (ships with 100-240 VAC, 50-60 Hz power supply)
Est. battery life:	-01: Up to 8 years (based on 4 scans per hour and 1 transmit per day with good LTE-M signal quality)
Data transmit:	Level, location, alerts & battery status
Configuration:	LevelTap™ App (IOS & Android)
Browser interface:	levelhub.io
Data export:	CSV, JSON, API formats
Memory:	Non-volatile
Operating temp.:	F: -22° to 176° C: -30° to 80°
Enclosure rating:	-01: Type IP67 -11: IP66
Enclosure mat.:	PBT (polybutylene terephthalate)
Weight:	8 oz (255 grams)
Classification:	General purpose
Compliance:	FCC, CE, RoHS, REACH

Dimensions

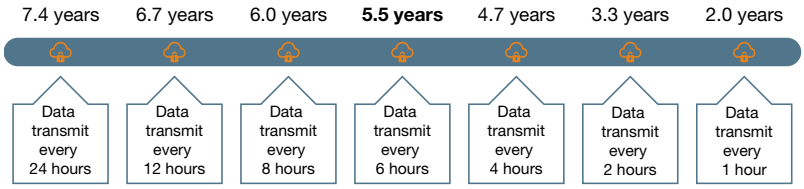








HB01-01 Estimated Battery Life



Configuration



Remote monitoring is easy. Download the LevelTap App, pair and configure your EchoBeam sensors. Scan the QR code on the back of LevelHub gateway, and add your first site through LevelTap. Then press the LevelHub power button and activate the data service by paying the subscription fee at levelhub.io. Last, assign your EchoBeam sensors to LevelHub through LevelTap and you're done.



Ordering

HB01- ☐ **1**

POWER (1),(2)

0	Battery powered
1	DC power supply

DC power version



NOTES

1) LevelHub hardware is purchased through distribution and the service is purchased via credit card on levelhub.io at $195 USD/year.
2) Download the free LevelTap App at the Apple Store or Google Play, register, and then follow the instructions in the LevelHub manual.