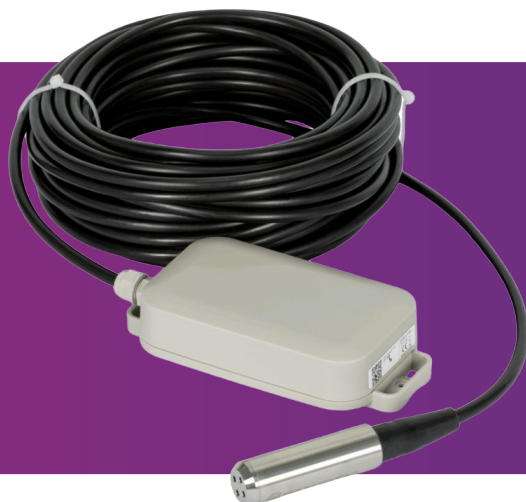




NB-IoT

Wireless water level logger

The Efento NB-IoT wireless data logger is designed for continuous water level monitoring, ensuring reliable data transmission and high measurement accuracy. Using Narrowband IoT connectivity, it communicates directly over the cellular network. No gateways or additional infrastructure required.



Key Features

- **Effortless installation** - thanks to built-in NB-IoT connectivity, installation is as simple as mounting the device on a wall or placing it on a shelf - no gateways, cabling, or Wi-Fi configuration required.
- **Fast and intuitive setup** - with an integrated Bluetooth Low Energy (BLE) module and a dedicated mobile app, the sensor can be configured and activated in under 15 minutes.
- **Up to 8 years of battery life** - engineered for long-term, maintenance-free operation, the device uses intelligent data handling and optimized transmissions to achieve up to 8 years of operation on a single battery.
- **Cloud and system integration** - seamlessly connects with the Efento Cloud platform for data visualization, analysis, and alerting. Standard communication protocols also enable easy integration with custom server-based systems.
- **Remote management** - supports over-the-air firmware updates and secure remote configuration, reducing the need for on-site maintenance.

Applications

The device is designed for water level measurement using an external 15-meter hydrostatic probe. It is ideal for use in wells, water tanks, retention systems, water supply installations, wastewater treatment plants, and environmental monitoring applications such as groundwater level control, water resource management, and supervision of industrial installations.

Sensors

Water level	
Model	Hefei WNK 8010, 15-meter probe
Measurement range	0-15 m
Accuracy	0,5% FS
Resolution	Default 1 mm (user-configurable)
Drift	0,2% FS/ year
Protection class	IP68

Technical data

Data logging	
Memory size	100 000 measurements
Measurement interval	5 s - 30 days (user-configurable)
Bluetooth interface	
Radio module frequency	2.4 GHz
Power	2.5 mW (4 dBm)
Range	Up to 100 m (LOS)
Transmission period	1 s
Bluetooth version	Bluetooth Low Energy (4.0)
NB-IoT interface	
NB-IoT bands	1, 2, 3, 4, 5, 8, 12, 13, 17, 18, 19, 20, 25, 28, 66, 70, 85
3GPP	13 i 14 (LTE Cat NB2)
Power	23 dBm ±2 dB
Communication	
Protocol	CoAP
Transmission interval	1 min - 7 days (user-configurable)
Operating and Storage Conditions	
Main unit operating conditions	Temperature: -25°C to +70°C, humidity: 0-99% RH (non-condensing)
Probe operating conditions	Temperature: -40° to 85°C
Storage conditions	Temperature: -25°C to +70°C
Charging conditions (variants with external power supply)	Temperature: 0°C to +45°C
Certifications	
Regulatory	CE (RED), FCC
Environmental	RoHS

Variants

EAN	Power Supply	Enclosure	Weight
5905309603943	8,500 mAh battery (replaceable). Battery life up to 8 years	IP30, white ABS plastic Dimensions: 32.5 × 60 × 125 mm	1065g (including battery)
5905309604261	USB-C, with a 1,300 mAh rechargeable backup battery to maintain operation in case of power loss	IP30, white ABS plastic Dimensions: 32.5 × 60 × 125 mm	1050g
5905309605459	38,000 mAh battery (replaceable). Battery life up to 8 years	IP67, dark grey ABS plastic Dimensions: 189.5 x 81.5 x 55	1340g (including battery)
5905309605466	9-26V, with a 1,300 mAh rechargeable backup battery to maintain operation in case of power loss	IP67, dark grey ABS plastic Dimensions: 189.5 x 81.5 x 55	-