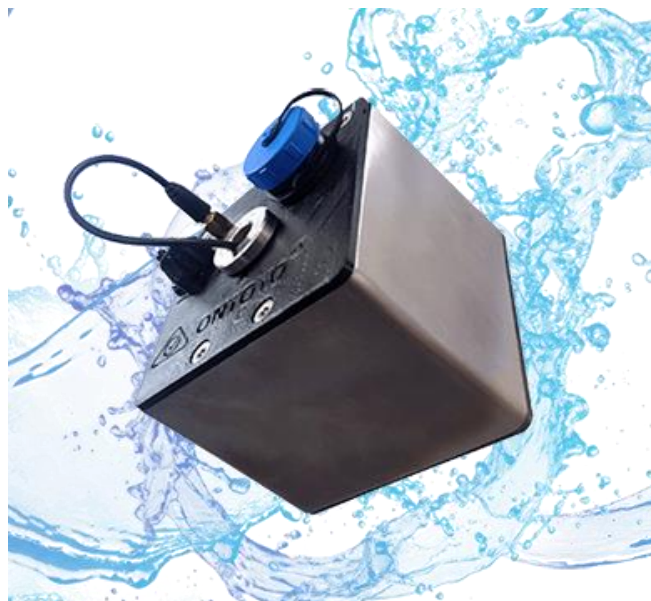




Greyhound Data Logger

The fully integrated low power NB-IoT telemetry solution



Your data, anywhere.

Designed and made in Australia

Feature Description

Using this data logger, you will be able to monitor and manage your monitoring bore remotely once the installation has been completed. With simplicity in mind there is only one toggle switch, one SMA aerial connection and one sensor connector visible on the external casing.

- NBloT, LTE, and BLE connectivity.
- Sensor data stored in flash memory on board as a backup.
- The default configuration has a 4 hour sample interval and weekly reporting frequencies.
- Network synchronised utilising universal co-ordinate time (UTC) for all data points.
- User customisable with site set up tools via Android app and MAC IOS.
- Strong and durable casing to protect the internal hardware.
- The standard aerial is vandal resistant
- A tested range of higher gain aerials available to suit the geography of your location.
- Class leading battery life, powered by lithium batteries.

Greyhound Optional Extras

- Hi power lithium battery with extended temperature range.
- Compact solar options
- Various antenna options for different site coverage.
- Tipping rain gauge option.
- Various sensor options including water level, EC, pH and turbidity.
- Third party sensor adaptor.

Certification

The Ontoto Greyhound has been designed to comply with the Australian Standards:

- AS/NZS 3820:2009 for low voltage battery powered devices.

EMC testing has been undertaken by EMC Technologies and the Greyhound Data Logger is certified with RCM compliance.

Site Expectations

- The Greyhound Data Logger is a scientific instrument that needs to be installed correctly. If the data logger is not installed correctly the accuracy of the data cannot be relied upon.
- The site needs NBloT/LTE signal to take advantage of the remote telemetry feature of the Greyhound.
- We recommend using a fixed steel monument to mount the Greyhound. Animals have been known to use the structure as a rubbing post, plastic monuments are easily broken which may then cause network connectivity complications.



Easy Installation

The Greyhound Data Logger is a simple turn-key solution. It is designed to be installed into standard 100x100mm or larger steel monument casings with a single bolted connection allowing for easy retrofitting into existing assets onsite.



Battery Specifications

The provided battery pack is comprised of three Lithium-based batteries (ER2500M) in parallel with the following specifications:

- Voltage: 3.6 V
- Capacity: 6000 mAH
- 2500 mA pulse current
- Long shelf life: less than 1% self-discharge rate at 25°C per year
- Temperature range: -55°C to +85°C



Device Specifications

Product Features

- Compatible with a range of intelligent digital sensors including water level, pH and pressure.
- NBloT network connectivity.
- Battery powered device, up to 5 years between battery changes (sleeping current draw of only 2 μ A).
- Remotely configurable by the end user via our Android application and our Web Portal.
- Sampling and reporting frequencies from as little as one minute, to as much as one year.
- Occupies the available space in standard steel monuments for a simple onsite retrofit.
- No proprietary software to receive or access the data.
- Complimentary web portal for device and data management.
- Sensor Power 5V, 12V
- MODBUS
- SDI-12
- Designed and made in Australia.

Technical Specifications

- MODBUS RS485
- SDI-12
- Stainless steel and PET casing ensure longevity.
- Operational temperature range from -20 to 80 degrees C.
- Dimensions 90mm (W) x 90mm (L) x 95mm (H).
- Product Weight: 870grams (including batteries)

Sensor specifications

The devices are programmed to support a variety of sensors. The specifications are available on our website. The device also has a built-in pressure sensor for atmospheric correction if needed, the specification of which are listed below:

MS5607 pressure sensor

- Measures atmospheric pressure with a range of 100-1200 mbar
- Resolution: 0.024 mbar
- Accuracy: \pm 1.5 mbar at 25°C, 750 mbar
- Maximum error of \pm 2.5 mbar within operating conditions (-20°C to +85°C, 300-1100 mbar)



Installing 3rd Party Sensors On The Greyhound Data Logger

With the mobile application, the device firmware can be modified on-the-fly to support custom sensors. To reconfigure the device, the following requirements are required:

- Internet connection. This is needed to download the new firmware from the server. The firmware can be stored on a phone for later downloading in the field.
- Stable Bluetooth connection. The device should be no more than 2m away from the phone.

Warranty

Ontoto Pty Ltd will warrant the entire product (excluding the batteries) for 5 years from the date of delivery for parts and labour.





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