Fibre Optic Header Unit

For Bluetooth Connection to the AquaBat Loggers

CE

Part No. HDR-Bluetooth

Features

Battery Powered for Self Contained Operation

1 x Fibre Optic Port

Network Connection Status Indicators

User Installed Fibre Cable - low cost plastic cable

Bluetooth Cable Free Support

Free application software - Microsoft Accredited Drivers

In-situ Data Downloads - no removal once deployed

A Microsoft Windows Mobile Device

ADVANTAGES

Portable Operation - Simply connect to stand-alone instruments for downloads on demand

Quick Swap system for multi-instrument use

The Header unit operates as the communications interface between the AquaBat logger and an external data storage/Configuration device such as a PDA or mobile phone. The applications software is used to download data and configure the device. .

The AquaBat operates as a stand-alone logger and can be left for considerable time periods for unattended recording applications.

The fibre cable is easy to install and can be replaced to suit additional sensor deployment locations. Once the sensor is deployed it can be downloaded in-situ without any requirement to reposition the device after use.

The AquaBAT can be examined remotely to ensure it is operating and this can be done by anyone instantly by observing the data transmission in the fibre. It is possible to see the data transmission in the fibre since the communication is done by light pulses.

Data synchronisation between instruments is straight forward and is maintained via the automatic time setting from the host PDA/ Mobile Phone.

Windows Mobile

Windows Mobile

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Bluetooth

Installation of the fibre cable requires no special tools or training. Simply remove 5 mm of the outer plastic sheath around the fibre using nothing more than a pair of wire cutters and insert the fibre into the front of the unit

Fibre Optic cable connected to the AquaBAT Unit

Fibre Cable attachment

The fibre cable is secured to the sensor using 4 x 2.5 mm bolts which are locked into place using the hex key.

PDA/Mobile Phone

Status LED Operations

The operation of the header unit from power on to communication to the AquaBat is shown visibly using a series of LED indicators mounted on the front panel.

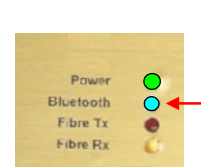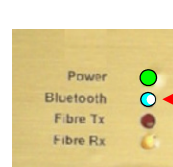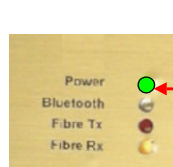| Specifications	
Fibre Optic Port	316 Stainless Steel or better
Fibre optic cable	2.2 mm External diameter - 1 mm diameter core plastic multi-mode fibre
Construction	High Impact Resistant Plastic Case
Dimensions	L150 x W 90 x D 30 mm - Including protective case
Sealing	Spray resistant
Battery Type	2 x AA CELLS
Data Comms	Speed 38 Kb - Fibre Optic link only 450Kb - Bluetooth Cable Free Link
Operating Temp	- 20 to + 60 Deg C
Battery Life	Typically 2 yrs - or 500 downloads
Synchronisation	Automatic clock synchronisation via host device
Range	Typical fibre comms < 120 m Bluetooth comms < 15 m

LED Boot Sequence

Initial Power On	**Start a Bluetooth Connection**	**Made a Bluetooth Connection**
Green Power LED constantly	Bluetooth LED status indicator flashes when making a connec-	Bluetooth LED status indicator is now permanently illuminated.

Power
Bluetooth
Fibre Tx
Fibre Rx

○ Flashing LED