



AnyBridge Hydrology Controller

Product features

- Compact design fits in small rooms, e.g. street surface boxes
- Optimised for battery-powered water level measurements
- Ultra low-power operation for extended battery lifetime

Measurement functions

- Huba712 submersible pressure transmitter
- Pt-100 temperature sensor interface
- High-precision 16-bit sampling and digital processing of sensor signals
- GPS positioning

Communication functions

- Dual-band GPRS modem
- USB 2.0 service interface

Sensor technology from:



Comprehensive solution for remote water level measurement

The AnyBridge Hydrology Controller is an ultra low-power, cost-effective intelligent remote measurement and data logging device with an integrated GPRS communications interface that is specifically designed for the application requirements of remote water level measurement using state-of-the-art hydrostatic pressure measurement technology from Huba Control.

High-precision water level measurement and data logging

The AnyBridge Hydrology Controller is equipped with a Huba712 relative pressure transmitter and Pt-100 temperature sensor interface. For accurate water level measurements, the sensor signal is sampled with a high-precision 16-bit analog-to-digital converter and digitally processed to enhance the signal reliability. For time-stamped logging of the measured water levels, the AnyBridge Hydrology Controller provides a large non-volatile log memory.

Ultra low-power operation

The AnyBridge Hydrology Controller has been designed for ultra-low power operation from a small lithium battery. A carefully crafted balance of the AnyBridge Hydrology Controller hardware and software design ensure extended battery lifetime. Alternatively, the AnyBridge Hydrology Controller can be operated from a 24VDC power supply.

Compact, robust design

The AnyBridge Hydrology Controller has been designed for operation under harsh conditions and to be placed in small rooms such as street surface boxes. The sealed electronics are well-protected against moisture and dirt.

Full-featured communication functions

The AnyBridge Hydrology Controller provides a comprehensive set of communications interfaces, including a dual-band GPRS interface for interaction with the AnyBridge M2M Platform. For positioning, an internal GPS function is available. A USB 2.0 service interface is provided for local configuration and software updating.

Easy installation and configuration

Deployment of the AnyBridge Hydrology Controller is a straightforward procedure that requires little more than installing it in the field, and configuring it with the PC-based installation software. By setting the appropriate application parameters, the functionality of the AnyBridge Hydrology Controller is tailored to the requirements of the application.

Any application, anywhere

Depending on the application requirements, various AnyBridge Hydrology Controller versions are offered. Custom versions and branding are available upon request.

AnyBridge Hydrology Controllers		Features*				
Product version	Product Code	Huba712 pressure	Pt-100 sensor	USB service interface	GPS positioning	
AnyBridge Hydrology Controller - Basic	AB-HYD-01	x	x	x	-	
AnyBridge Hydrology Controller - Premium	AB-HYD-02	x	x	x	x	

(*) x: standard interface

Product specifications

Level measurement

- Huba712 submersible pressure transmitter, paired and calibrated with AnyBridge Hydrology Controller
- Pt-100 temperature sensor interface (3-wire)
- High-precision 16-bit data sampling and digital signal processing

Communication interface

- Dual-band GPRS modem
- USB 2.0 service interface

Application functions

- Log memory: 8 MB
- Configuration memory: 8 kB
- Integrated real-time clock (accuracy: 100 ppm)
- Watchdog controller
- GPS positioning (optional)

Enclosure

Mechanical dimensions: 120x80x55 mm
 Ingress protection level: IP-67
 Sealed electronics

General specifications

Power supply: 24VDC or 3.6VDC Lithium Battery
 Power consumption (typical): 1.5 mW
 Power consumption (max.): 2.5 W
 Regulatory compliance: EN 61000-1, EN 61000-3-2, EN 61000-2-2, EN 61000-6-3, IEC 60950
 Operating temperature range: -20/+60 °C