

# BILGE<sup>®</sup>

GSM / GPRS DATA LOGGER

[www.enelsan.com](http://www.enelsan.com)

# enelean

*We Measure*



# GSM / GPRS DATA LOGGER

Bilge different channel options, fully integrated GSM / GPRS communication module, It is an advanced data logger device with optional external antenna and powered battery features. Can be used in many different applications together, it is specially designed for the control of water networks.

It is ideal for measuring and monitoring pressure in water networks, as well as for use with pressure breakers and pressure boosting valves.

The ability to record at desired intervals, to adjust the frequency of data transmission, and to work with sensors at different pressure ranges give it the flexibility to be used in every network.

Recorded data, meter values, pressure measurements and alarm messages are sent to the central system over GSM / GPRS network. Providing fast data transfer by using GPRS communication in the most effective way and low current consumption of the device provides extremely long battery life.

▶ IP68 waterproof and robust body

▶ Long-lasting internal battery

▶ Field replaceable Lithium Battery Pack

▶ Adjustable connection and logging interval

▶ 2 digital (flow), 2 analog (pressure) inputs

▶ Built-in Quad-Band GPRS modem

▶ Remote and local parameter update

▶ Data storage up to 10 years with non-volatile memory

▶ Wide archive and logging feature (up to 3 years)

▶ Customizable alarm features (cryout)



# GSM / GPRS DATA LOGGER

Bilge data loggers are suitable for all kinds of telemetry applications with their structure resistant to harsh environmental conditions, wide operating temperature range, waterproof and underwater operation and maintenance-free long battery life. The data in the field can be collected and analyzed with a high-quality, advanced software application, and can be sent directly to the systems of your institution without the need to use middleware.

Features such as geographical information system support, marking devices on the dynamic map, accessing data, reports and graphics on the map, alarm list and reports can be presented on a web-based basis.

Besides advanced telemetry and GSM / GPRS communication features, it also offers you local access facilities. With the RS232 serial channel connection protected by IP68 waterproof cover connectors, the entire configuration of the device can be accessed and the desired data can be easily accessed. Internal pressure sensors and specially designed body structure of MeasureBOX facilitate the assembly process.

Bilge, battery-powered data logger device, different physical It enables measurement and recording of sizes in the harshest environmental conditions. Robust body structure, sensitive electronic circuits against dust, moisture, water and mechanical impacts. protects against.



With the tests carried out in accredited laboratories, CE certification is the guarantee that you can use it safely in any environment. One of the unique features that distinguishes MeasureBOX from its peers is that its internally supplied sensors can also be offered externally on demand. Can be used with industry standard 0-20mA, 4-20mA, 0-1V, 0-10V different types of sensors.

<b>Pressure Inlets:</b>	0 - 25 bar input range (different ranges available) +/- 0.5% nonlinear accuracy +/- 0.1% repeatability
<b>Digital Inputs:</b>	Pulse counter feature for flow Suitable for dry contact and Namur inputs
<b>Communication:</b>	Quad band GSM / GPRS modem Internal antenna (optional external antenna)
<b>Communication Speed:</b>	Programmable from 15 minutes to 10 days
<b>Registration Period:</b>	Programmable up to 60 minutes
<b>Sampling Period:</b>	Programmable up to 60 minutes
<b>Serial Port:</b>	RS232, full duplex, asynchronous, 4800 bps
<b>Memory:</b>	512K, semiconductor, non-volatile flash memory User configurable define station name Persistent and immutable Datalogger ID
<b>Hour:</b>	Dated, 24-hour based real time clock feature
<b>Power Source:</b>	Internal Lithium battery, replaceable in the field Battery life > 5 years (depends on the usage mode)
<b>Alarm:</b>	Alarm function with Cry Out feature Programmable high / low alarm limit levels Separate local / remote configuration for each channel
<b>Working Conditions:</b>	Temperature range of -20 ° C to + 50 ° C IP68 protection class Underwater working in accordance with EN ..... norms
<b>Dimensions:</b>	229 x 138 x 85mm (W x H x D) Polycarbonate body

## Accessories

- ▶ Pulse Cable
- ▶ Pressure Hoses
- ▶ Communication Cable
- ▶ Wireless Communication Apparatus
- ▶ GSM / GPRS External Antenna
- ▶ Configuration Software
- ▶ Mounting Kit



## Field Applications

