

iLOG100 Intrinsically Safe GSM/GPRS Data Logger



Log data in remote hazardous areas and upload data via GSM/GPRS networks

Intrinsically Safe II 2(1)G EEx ib [ia] IIC T4

-10°C to +55°C (14°F to +131°F)

IP68 (4 metres for 4 days)

Overview

The iLOG100 is an intrinsically safe battery powered data logger for use in remote hazardous areas where there is no power supply infrastructure and process data is required to be measured and logged. The iLOG100 has two 4-20mA inputs with loop power supply to power any standard intrinsically safe two wire transmitter such as flow, level and temperature transmitters. The three digital inputs can be configured as either an on/off logic signal for starting or stopping logging from devices such as a float switch or configured as a pulse counting input for flow measurement and totalising with a frequency range up to 1KHz.

The power is provided by a replaceable battery pack that will last up to several years depending on logging frequency and number of data uploads per day. For applications that have a high logging frequency an external battery pack is available as an option doubling the battery life.

The iLOG100 is configured by a user friendly Windows software package which also offer diagnostic facilities. The logged data is uploaded to a Linux Server running software or alternatively it is possible to use our managed servers and via a web browser view the data and export it to other applications.

Features and Benefits

Flexible Mounting and Rugged Construction

The iLOG100 is made from a robust polycarbonate and as such is resistant to corrosion. It is designed for installation in dirty wet plant environments and with IP68 ingress protection it can be installed in areas susceptible to flooding to a depth of 4 metres for 4 days.

Long Battery Life

A powerful, replaceable battery pack offers years of logging depending on the frequency of logging and data upload. The battery life may be doubled by adding an external battery pack. The intrinsically safe battery packs may be changed in a hazardous area meaning a hot work permit is not required or the iLOG100 does not have to be dismantled and moved to a safe area.

Internal or External Antenna

As standard the iLOG100 is supplied with an internal stub antenna. For applications where the GSM/GPRS network signal is poor an external antenna may be connected. Extronics have several types of external antenna available that have been assessed as intrinsically safe when used with the iLOG100. Other special antennas may also be used providing they have been assessed by Extronics to comply with the intrinsic safety requirements of the certificate.

Logging Functions

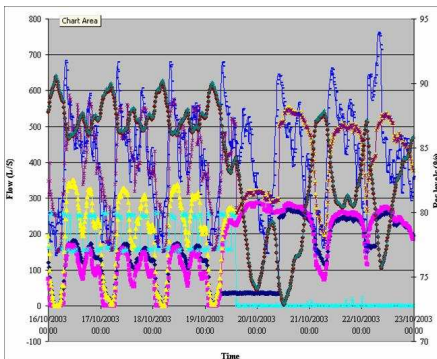
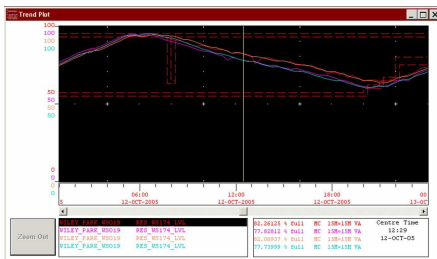
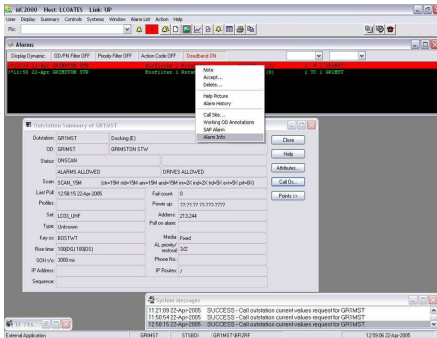
The iLOG100 not only measures and logs data but it can also perform calculations on the data such as flow rate from pulse inputs, totals, averaging and simple maths functions.

Flexible Software

The iLOG100 is configured using a standard Windows based software that connects to the serial port of the unit. Functions include set-up, maths and logic functions, alarms with remote messaging via Email or text message and diagnostic mode for maintenance and calibration.

To upload data there are two possibilities. Users can have their own service set up on our redundant high availability servers to upload, view and export the data via any web browser over the internet. There is an annual charge for this service. Alternatively if your application has large number of loggers you may prefer to run our Linux based application on a dedicated PC in your company and upload the data via modem. A host of features provides the user with the ability to view, graph and analyse the data or to export it to other applications.

Software Screen Shots



Specification

Analogue Inputs

Two, to be specified at time of order. Either active loop powered 4-20mA or passive 4-20mA or 0-2/0-5V with sensor power supply

Digital Inputs

Three for connection of passive volt free contacts or passive sold state contacts. Can be configured as logic on/off or pulse counting inputs up to 1KHz

Electrical Connections

Via IP68 sockets plugs at bottom of enclosure (set of plugs supplied with logger)

Antenna

Supplied with internal antenna— Extronics external antenna can be connected to IP68 socket in poor reception areas

Ambient Temperature

-10°C to +55°C (14°F to +131°F)

Relative humidity

5 to 95%, non-condensing

Power

EX approved 9V alkaline battery pack

Battery Life

Several years dependant on use and environment

Dimensions

330mm x 170mm x 75mm (12.98" x 6.69" x 2.95") w x h x d

Weight

1.9Kg (4.2lbs)

Housing

UV resistant polycarbonate

Ingress Protection

IP68 - 4 metres for 4 days

Mounting

Wall or flat surface

Modem Specification

Quad band GSM & GPRS: 850/900/1800/1900 MHz

ATEX Certification

II 2 (1) G EEx ib [ia] IIC T3/T4

Ordering Information

Description

Intrinsically safe battery powered data logger

Part Number

iLOG100-MM3P-[#1]-[#2]

Specify [#1] analogue 1 input type

- Active 4-20 mA input with loop power supply 1
- Passive 4-20 mA input without loop power supply 2
- Passive/Active voltage input with power supply for external sensors 3

Specify [#2] analogue 2 input type

- Active 4-20 mA input with loop power supply 1
- Passive 4-20 mA input without loop power supply 2
- Passive/Active voltage input with power supply for external sensors 3

- External 18D cell battery pack (*requires iLOG100-C1) iLOG100-EB18
- External battery pack cable iLOG100-C1
- Replacement battery pack iLOG100-B1