



# Safir Data Logger

The Safir Data Logger is designed for remote monitoring in gas.

## Main features include:

- Zone Zero ATEX Approved;
- GSM - SMS & GPRS;
- Multi utility;
- Remotely configurable;
- GM7 compliant;
- Firmware upgrade facility;
- Visual signal strength indicator;
- In field SIM & battery replacement;
- Easy to install.

The internal GSM modem is capable of supporting both GPRS and Short Message Service (SMS) messages and quad band operation for both in, and outside the UK.

The Safir can support multiple delivery schedules to meet the customer's specific requirements. It can be configured so that it periodically sends out the logged data and other system data with respect to a timed schedule.

The Safir is designed to be mounted in close proximity to either a commercial or domestic gas meter (up to and including Zone Zero) or other utility meter that has a suitable pulse output.

Hardware is designed to be modular to provide a future proofed approach to accommodate a communications architecture, which would allow external units to perform functions not catered for in the base level unit. In this way future features can be enabled remotely in off board units or through firmware updates.

## Safir details:

Interface to gas, electricity and water meters via the pulse output;

The unit is capable of interfacing with up to 2 meters with tamper detection or 4 channels without tamper;

Pulse counting at frequencies up to 20Hz;

Pulse output for each channel – programmable pulse width – up to 200 mS;

Intrinsic Safety for application up to and including Zone Zero;

Logging at user-defined periods from 5 minutes to twice daily and daily intervals; an example service could be 48 records per day per input of 30 minute data sent in a single SMS. Internal non-volatile data storage as a secure backup;

In excess of 5 years battery life if accessed daily;

A back up battery means a battery replacement can be undertaken in the field without interruption of the main battery, which also can be replaced in the field;

Supports field change of SIM;

Serial Data port for connection to smart sensors and converters;

Easy connection of cables to reduce time and error on site;

Suitable for internal and external installation;

Unique on site test of signal strength and pulse;

Simple secure mounting.