



Low Power Radio Data Logger

Low power radio technology has been developed following years of experience of deploying AMR systems in the UK and USA. These products have been purposely designed to maximize range and penetration within a building. Data is transmitted in the 868 MHz ISM radio band using a technique called 'narrow band transmission'. The radio operates at a lower data rate which sets it apart from other systems (such as Wi-Fi, Zigbee and Bluetooth) to provide better penetration of buildings and increase range.

The radio consists of two parts:

- Transmitter (Merlin)
 - Zone Zero ATEX Approved
 - Multi utility
 - Many applications outside of utility monitoring
 - Very easy to install
- Receiving data Hub (Kestrel)

The Kestrel can receive transmissions from a group of transmitters (Merlins) and will concentrate the data for upward delivery over a wide area network, which can be Internet or GPRS enabled.

In the case of Internet, the data can be delivered near real time to a secure Web site or customer's browser.

Gazprom Global Energy Solution's technology aims to deliver a better overall cost/performance profile than other systems, for low data traffic applications.

Specifically, the key benefits are:

- The underlying radio cost structure is lower
- Near real time data down to 10 seconds
- Choice of wide area network (Internet and GPRS)
- Longer ranges can be achieved and for a given range, reliability is better
- Long battery life
- The system can make use of low powered, unlicensed frequency bands
- The system can comply with regulations in many countries
- The system has a full range of interfaces, from electrical interfaces, to internet
- Web enabled management interfaces
- Has complete integration with GGES's other products and solutions

These attributes are ideal for applications such as:

- Monitoring and targeting applications
- Primary metering
- Secondary metering
- Interface to Customer Display Units
- Link to BMS