



GSM/GPRS Utility Transmitter – rl4603

Need to monitor your energy consumption but don't want the hassle of wired installation on site? Hanwell's new iSense energy range uses tried and tested GSM/GPRS mobile phone technology to monitor your energy usage remotely. With the added benefit that the current clamps can be added without disconnecting existing wiring.

iSense energy will help you diagnose and eliminate areas of wasted energy and accurately report on costs and trends directly from the data it collects. The software allows up to eight different tariffs to be created allowing an accurate costing of energy use over periods of time and for particular pieces of equipment and/or areas of concern.

The rl4603 unit is part of the iSense energy GSM/GPRS based range. All products in this range are truly stand-alone and are suitable for use in the most remote locations. The only limitation to use is the availability of a GSM signal. The rl4603 unit is battery powered, which are user replaceable, with a life expectancy of around five years (depending on usage). The unit can be powered by an external 4.5v supply if required and can accurately pinpoint current consumption down to a 3 second resolution.

Unlike many GSM/GPRS monitoring systems, using off the-shelf GSM modems which often lose communication due to problems with the network, the iSense energy unit has an onboard micro controller acting as a watchdog for the modem. Should any problem with network connectivity be detected the GSM/GPRS module will automatically re-set and re-connected to the network avoiding costly trips to manually reset the unit.

The set-up is done via SMS messages allowing easy installation on site. Some setup is done via the internal USB interface (which can be done prior to installation) using the simple setup program, which is supplied free.

A SIM card is required. Limitless sensors can be added to a system to cover a site of any size or physical make up. Each unit measure the output from current clamps. This data is recorded at user-defined intervals and transmitted

when the packet sizes is the most economical (telephone costs) to the Radiolog system where it is filed for analysis.

The rl4000 range has been designed to comply with the RoHS and WEEE EU directives, and carries the CE mark.



Clamp meter



Benefits

- Easy installation without any interference with mains
- Reduces energy costs
- Reduces carbon footprint
- Wireless communication for cost effective install
- Detailed analysis of usage and costs
- Compatible with existing Hanwell systems

Typical Applications

- Energy reduction
- Energy studies
- Energy monitoring



Product Code r4603

Series r4000

Instruments

Dimensions: 100 x 100 x 60 mm

Weight: 600 grams (including battery pack)

Power Supply: 2 x Alkaline D cell batteries

Battery Life: 5 years (one SMS a day i.e. 30 minute pulse count and no events enabled)

Case Materials: ABS & PC

Memory Capacity: 100,000 readings

N.B. Instrument operating range -20°C to +60°C in a non-condensing RH environment

Current Transformers

Type: DC current transformers 0-5 volts

Resolution: 50mA

Maximum Count: 4094

Accuracy: +/-2.5%

Min Measurement Period: 1 second

Measurement Types: Instantaneous, Average &

Events Current Range: 0-120 amps – Current clamps for 0-600 amps – Rogowski coils with adapter PCB can be used.

No. of Channels: 3

Connection: 6 way terminal block

Entry into case is via three separate cable glands



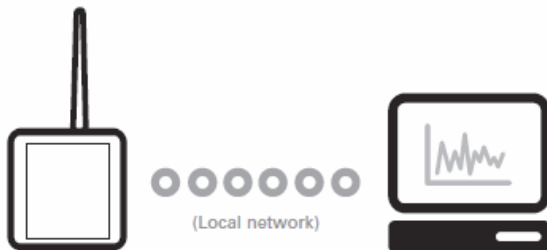
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GSM – Quad band module

GSM antenna connection is SMA. Knuckle antenna provided. SIM card required. The SIM socket is only visible when the case lid is removed.

Both units operate from 2 x Alkaline D cell battery pack. Battery pack can be purchased from Hanwell and fitted by customer. Battery life is at least 5 years (one SMS a day i.e. 30 minute measurement period and no events enabled).



Historical data can be downloaded via a USB cable directly to a local PC for analysis

iSense
energy



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