



RF Energy Transmitter – r14602

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 Hanwell radio technology to monitor your energy usage remotely through point-to-point radio (PTP). With the added benefit that the current clamps can be added without disconnecting existing wiring.

iSense energy will assist in diagnosing and eliminating 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.

This fast and reliable data transfer will allow automatic archiving of data onto a server. This can be done in two ways; though a LAN enabled retrieving base station or a receiving point with a direct USB PC connection. Both enable live data views to be available through compatible windows based software Radiolog. Limitless sensors can be added to a system to cover a site of any size or physical make up.

The iSense energy unit is part of the 4000 range of advanced radio transmitters. They allow wirefree monitoring of a site, with real time and historical analysis of data. Each unit measure the output from current clamps providing reliable information about energy usage and cost. This data is transmitted, at user-defined intervals, to the Radiolog system where it is filed for analysis and can accurately pinpoint current consumption down to a 3 second resolution. Each 4000 radio transmitter has enough internal memory to store up to 100,000 readings and is in fact continually logging. The sensor cable entry into the case is via a cable gland and terminated into a terminal block allowing for ease of installation and making the unit suitable for use outdoors.

Power is provided from a battery pack consisting of 2 x Alkaline D cells. Replacement battery packs are available from Hanwell and can be easily fitted by the customer.



Clamp meter

This ruggedised version of iSense energy comes in an IP 67 rated case and are suitable for use in harsh environments. The 4000 range has been designed to comply with the RoHS and WEEE EU directives, and carries the CE mark.



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 **r14602-xxx-xxx***

Series **r14000**

Instruments

Dimensions: 100 x 100 x 60 mm
Weight: 600 grams (including battery pack)
Battery pack: 2 x Alkaline D cells
Battery Life: 5 years (depends on usage and configuration)
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%
Minimum 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

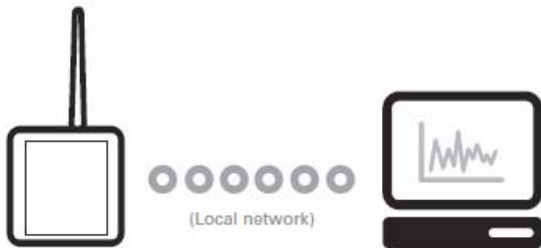
Radio

*Radio Frequency: 434.075MHz, 433.920MHz (fixed) 433.875 – 434.650MHz in 25KHz increments (synthesised)
Radio Power: 10 mW
Radio Range: 3 km over open ground



Disclaimer

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

