



The rl5000 Range is a series of Hanwell radio telemetry transmitters, designed for use with the Radiolog 8 environmental monitoring system. The units are in IP65-rated cases and are suitable for use in tough environments.

Each rl5000 has two inputs for probes, the combination of which can be customdefined. Supported temperature probe types include: thermistors and PT100s. The rl5000 also supports humidity probes and linear inputs. Probes are supplied separately. The transmitter ID, transmission speed and calibration data is programmed into its onboard memory using Radiolog 8, a software package which automatically recognises the type of unit connected to the PC via the USB lead.

The custom-designed LCD indicates current readings of two channels (based on the onboard calibration data), battery life and alarm conditions.

The transmitter is typically powered by a 7.5V 2700mAh battery pack, which can be fitted by the user. Larger battery packs are available as is option of permanent power.

The battery life will be dependant on the number of inputs and the transmission speed. An indicator on the LCD will warn when the battery is low, and the transmitter maintains a record of when the battery has been changed.

The rl5000 range has been designed to comply with the RoHS and WEEE EU directives, and carries the CE mark.



## rl5001 radio transmitter

**Product Code** RL5001-xxx  
**Series** rl5000  
<sup>1</sup> Not available in US  
<sup>2</sup> Only available in US

### Typical Applications

- ° Environmental monitoring
- ° Warehouse monitoring
- ° Pharmaceutical monitoring
- ° Laboratory monitoring
- ° Building monitoring & control
- ° Event logging
- ° Temporary monitoring

### Instrument

**Dimensions:** 197 x 106 x 60mm  
**Weight:** 300 grams  
**Case Material:** ABS  
**Power Supply:** 7.5V 2700mAh Alkaline battery pack  
**Op. Humidity**  
**Range:** 0...95% RH, non-condensing  
**Op. Temp. Range:** -20 °C to +60 °C

### Sensors

Code	Description
RL5001	Thermistor, PT100, Humidity, Linear

### Radio

**\*Radio Frequency:** Fixed frequency modules  
 434.075 MHz<sup>1</sup>  
 433.920 MHz  
 Synthesised modules  
 433.875 to 434.650 MHz  
 in 25KHz increments<sup>1</sup>  
 458.650 MHz<sup>2</sup>  
**Radio power:** 10 mW  
**Radio range:** 3 km over open ground

### Communications & Software

**PC/Logger Interface:** Standard USB A/ USB mini-B  
**PC Software:** 32bit Windows with Radiolog 8.3 or later  
**Minimum O/S:** Windows 2000, Windows XP, Windows NT

### Accessories

Code	Description
Y055	USB communications lead
W250	USB configuration tool (required for users with Radiolog software earlier than 8.3)