



The rl5000 range is a new 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 custom-defined. Supported temperature probe types include: thermistors, PT100s and thermocouples. 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 on-board 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. A plain cover is supplied if the LCD is not required.

The transmitter is typically powered by a 7.5V 2700mAh battery pack, which can be fitted by the user. 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.



rl5002 radio transmitter

Product Code	RL5002-xxx.xxx*
Series	rl5000
	¹ Not available in US
	² 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
Operating Humidity Range: 0...95% RH, non-condensing
Operating Temperature Range: -20 °C to +60 °C

Sensors

Code	Description
RL5002	Thermistor, PT100, humidity, linear, thermocouples

Radio

***Radio Frequency:**
Fixed frequency modules: 434.075 MHz¹, 433.920 MHz
Synthesised modules: 433.875 to 434.650 MHz in 25KHz increments¹, 458.650 MHz²
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	
Y055	USB communications lead
W250	USB configuration tool (required for users with Radiolog software earlier than 8.3)