



Left: Shown with Y300 & J106

Above: Detail of USB socket

Below: Optional wall mounting security bracket

The r14101 is part of the 4000 range of advanced temperature and humidity radio transmitters. They allow wire-free monitoring of a site, with real time alarm notification and historical analysis of data. Each r14101 unit reads its on-board sensors providing accurate and reliable information about environmental conditions. This data is transmitted, at user-defined intervals, to the Radiolog system where it is filed for analysis.

The r14101 has a precision thermistor sensor and high quality humidity sensor. These sensors are housed in convenient plug mounted housings.

There are two sensor mounting options; either plug mounted or remote cable mounted. The on-board plug in sensors are used to measure over the instrument operating range. To measure over the whole range remote sensors are required.

The sensors can easily be removed for calibration; the plug mounted versions are connected for calibration using the optional calibration cables.

Transmitter ID number and transmission rate are set in the r14101 using a simple software program (free to download) and a USB cable. Each unit has an LCD screen simultaneously displaying the most recent readings taken and the predicted battery life.

The r14101 is powered by a single 3.6V AA Lithium battery, which can be fitted by the user. The battery life will be dependent on the transmission rate set.

An indicator on the LCD will warn when the battery is low, and the r14101 maintains a record of when the battery was last changed.

The moulded case allows easy access to the battery and USB socket, as well as having slots to fit onto secure wall brackets and a plain front panel to hide the LCD if more discreet monitoring of public areas is desired.

The r14000 range has been designed to comply with the RoHS and WEEE EU directives, and carries the CE mark



## Temperature & humidity

**Product Code** RL4101-434.075\*  
**Series** r14000

### Typical Applications

Monitoring in:

- ° Fridge/Freezer monitoring
- ° Laboratories
- ° Hospitals
- ° Pharmaceutical
- ° Warehousing

### Instrument

**Dimensions:** 110 x 80 x 35 mm

**Weight:** 200 grams

**Power Supply:** 3.6 Volt AA Lithium battery

**Battery Life:** 18 months

**Case Materials:** ABS & PC

**Memory Capacity:** 100000 readings

**N.B. Instrument operating range -10 to +70°C in a non-condensing RH environment**

### Sensors

#### Temperature

**Sensor:** Precision thermistor

**Range:** -40 to +60°C

**Accuracy:** +/- 0.1°C between

-20 to +50°C +/-0.3 elsewhere

**Resolution:** 0.1°C

#### Humidity

**Sensor:** Capacitive polymer

**Range:** 0-100% RH non-condensing

**Accuracy:** +/- 2%

**Resolution:** 0.1%RH

### 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

### Accessories

**Code:**

Y055 Setup communications cable

G129 Replacement battery

CAL 3 point calibration certificate

J106 Plug-in RH probe

Y300 Plug-in T probe

J110-3-02 Remote RH Probe

J095.05 Remote Thermister Probe