



**Above:**  
*Detail of USB socket*

**Below:**  
*Optional wall mounting security bracket*

The ml4106 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 ml4106 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 ml4106 has a precision temperature sensor and a high quality humidity sensor. Each 4000 radio transmitter has enough internal memory to store up to 100000 readings and is in fact continually logging. When an object that is being monitored by a 4000 series transmitter goes out on loan the transmitter can travel with the object. When the object returns home the 4000 series unit can be downloaded via the high speed USB connection directly into the PC software. The environmental data for the time that the object has been away will be added to previously stored data, providing a continuous history for that object.

Transmitter ID number and transmission rate are set in the ml4106 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 ml4106 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 ml4106 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 ml4000 range has been designed to comply with the RoHS and WEEE EU directives, and carries the CE mark.



## Temperature & humidity

**Product Code** ML4106-434.075\*  
**Series** ml4000

### Typical Applications

**Monitoring in:**

- ° Environmental monitoring
- ° Warehouse/Stores monitoring
- ° Building monitoring & control
- ° Exhibition monitoring
- ° Environmental mapping

### Instrument

**Dimensions:** 110 x 80 x 35 mm  
**Weight:** 200 grams  
**Power Supply:** 3.6 Volt AA Lithium battery  
**Battery Life:** Up to 3 years  
**Case Materials:** ABS & PC  
**Operating Humidity Range:** 0...100% non-condensing  
**Operating Temp Range:** -10 to +50° C  
**Memory Capacity:** 100000 readings

### Sensors

#### Temperature

**Sensor:** Precision thermistor  
**Range:** -10 to +50° C  
**Accuracy:** +/- 0.2° C  
**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:**

- Y119 Wall mounting security bracket
- Y055 Set up communications cable
- G129 Replacement 3.6V Lithium AA battery
- CAL-IA 3 point calibration certificate