



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

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

It is recognised that one of the major causes of damage to works of art, fine furniture, carpets, wall coverings and museum exhibits is light falling on the objects. Hanwell provide a range of instruments that enable the conservator to measure the levels of Lux and the UV content of light.

The ml4701 Lux transmitter is part of the 4000 range of advanced radio transmitters, allowing wire-free monitoring of a site, with real time alarm notification and historical analysis of data.

These instruments provide the conservator with the necessary information to protect their valuable exhibits. Using proven Hanwell technology, measurements can be taken of the amount of visible light (Lux) falling on objects. Areas that would have previously required expensive and disruptive wiring can now be monitored by radio sensors.

The Hanwell Lux radio telemetry sensors measure Lux in the range 10 to 5000 Lux. This is generally sufficient for conservation environments where a Lux level of over 600 is not normally desired, but higher ranges can be supplied on request. The sensor is calibrated against a reference light meter.

The ml4701 is powered by a single battery, which can be replaced by the user without dismantling the unit.

Each 4000 series 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 (V8.3 or later only). The environmental data for the time that the object has been away will be added to the radio data, providing a continuous history for that object.

The moulded case allows easy access to the battery and USB socket, as well as having slots to fit onto secure wall brackets.

The ml4000 range has been designed to comply with the RoHS and WEEE EU directives, and carries the CE mark.



## Lux only

**Product Code** ML4701-xxx.xxx\*  
**Series** ml4000

### 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  
**Operating Humidity Range:** 0...100% non condensing  
**Operating Temp Range:** -20° to +60° C  
**Memory Capacity:** 100000 readings

### Sensor

**Type:** Photometric diode detector  
**Visible Wavelength:** 400 to 700nm  
**Visible Power:** 10 to 2000 lux  
**Colour Response:** Human eye (CIE curve matched)  
**Accuracy:** +/- 1%

### 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 Setup communications cable
- G129 Replacement 3.6V Lithium AA battery