

ML4107 radio transmitter

Pro ML4000RH/T Series

Part of the **Hanwell Pro ML4000RHT Series**, the ML4107 combines temperature and humidity measurement using onboard sensors with the option of connecting a flood probe. The instrument includes LCD display and 434.075MHz frequency as standard.

Features

- ✓ Combined temperature & humidity measurement
- ✓ Damp & leak detection
- ✓ LCD display with 50,000 data readings per channel & up to 2 years battery life
- ✓ Superior performance hardware & high accuracy sensors
- ✓ Easily accessible battery & USB socket
- ✓ Low power radio for long distance transmission (3km over open ground)
- ✓ Complies with RoHS, EU & WEEE directives
- ✓ Carries CE Marking

Typical Applications

- Showcases
- Damp and leak detection
- Stored collections



Temperature



Humidity



Flood



Radio transmitter



Product code: ML4007-434.075

Instrumentation specification	
Dimension (Excl. ancillaries)	110 x 80 x 35mm
Weight	200 grams
Power supply	1 x 3.6V AA Lithium battery
Battery life	Up to 2 years (dependent on conditions of use and instrument settings)
Case material	ABS & PC
Memory capacity	50,000 readings per channel (unit will wrap when full)
Clock accuracy (logging)	20 ppm at 25°C
IP Rating	IP30
Instrument measuring range	-20°C to +60°C
Instrument operating range	-20°C to +60°C in a non-condensing RH environment
Instrument storage temperature	-40°C to +60°C
Resolution	0.1°C (temp), 0.1%RH (humidity)

Note: RH and T only recorded on internal logging, not flood

Radio transmitter functions	
Frequency options	A range of frequencies are available between 433-458MHz. Country specific regulations apply.
Radio power	10mW
Radio range	3km over open ground
Software required	W900 – Standard EMS Software Package W906 – Validated EMS Software Package *See EMS datasheet for further options
Hardware required	CR2 / CR3 – Controller SR2 – Smart Receiver REP – Repeater

Product codes	
88706	AA Lithium battery
Y119	Wall mounting bracket
Probe options	Please refer to the Hanwell Pro Sensor datasheet

Manufactured by Hanwell | Ellab RoHS

Version 5 - EC190194

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Onboard sensors (supplied with unit)

Internal temperature sensor	Precision Thermistor
Operating range	-20°C to +60°C (restricted by instrument operating range)
Accuracy	+/- 0.3°C
Long term drift	< 0.1°C per year

Fixed relative humidity sensor	Capacitive Polymer
Operating range	10-90% RH non condensing
Accuracy	+/- 3% RH
Temperature dependence	$<(0.025+0.0003 \times RH)[\%RH/^{\circ}C]$

