

ML4106 transmitter

Pro ML4000RH/T Series

Part of the **Hanwell Pro ML4000RHT Series**, the ML4106 combines temperature and humidity measurement using onboard sensors. The instrument includes LCD display and 434.075MHz frequency as standard.

Features

- ✓ Combined temperature & humidity measurement
- ✓ 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
- Ambient room conditions
- Stored collections

Always ask for a long-range signal strength test.



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Instrumentation specification	
Dimension (Excl. ancillaries)	110 x 80 x 35mm
Weight	200 grams
Power supply	1 x 3.6V AA Lithium battery
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)



Product code: ML4106-434.075

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
Battery life	Up to 2 years (dependent on conditions of use and instrument settings)
Software required	W900 – Standard EMS Software Package *See EMS datasheet for further options
Software compatibility	EMS - All Versions Synergy - All Versions RadioLog 8
Hardware required	CR2 / CR3 – Controller SR2 – Smart Receiver REP – Repeater
Accessories	
Y119	Wall mounting bracket
88706	AA Lithium battery



Manufactured by Hanwell | Ellab   RoHS

Version 5 - EC200122

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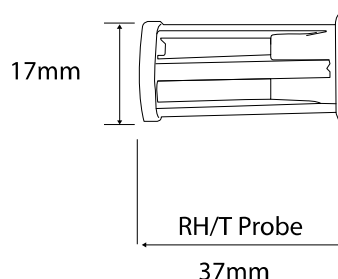
hanwell.com

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



Brief description

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 RadioLog8 or EMS 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 software program 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 SAA 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.

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