

# RL4116 transmitter

## Pro RL4000RH/T Series

Part of the **Hanwell Pro RL4000RHT Series**, the RL4116 combines C-Sense external temperature, EE07-02 relative humidity probe and internal PT1000 temperature sensor. The instrument includes LCD display and 434.075MHz frequency as standard.

### Features

- ✓ Combined temperature & humidity measurement
- ✓ LCD display with 33,333 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

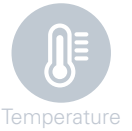
- Dry storage
- Ambient room conditions
- Fridge and freezer (using remote probe)

Always ask for a long-range signal strength test.



We can prove ours to be unrivalled.

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	33,333 readings per channel (unit will wrap when full)
Clock accuracy (logging)	20 ppm at 25°C
IP Rating	IP30
Instrument operating range	-20°C to +65°C in a non-condensing RH environment
Storage temperature	-40°C to +60°C
Resolution	0.1°C (temp), 0.1%RH (humidity)



Product code: RL4116-434.075

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 W906 – Validated EMS Software Package *See EMS datasheet for further options
Hardware required	CR2 / CR3 – Controller SR2 – Smart Receiver REP – Repeater

Accessories	
Y119	Wall mounting bracket
88706	AA Lithium battery
Y421-3	EE Probe extension lead 3 meters
Y421-5	EE Probe extension lead 5 meters

Ultimate peace of mind **RoHS**

Version 2 - EC180093

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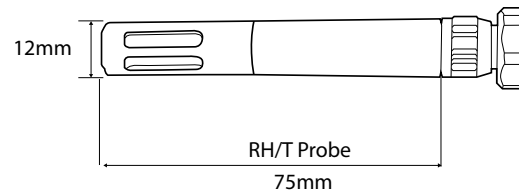
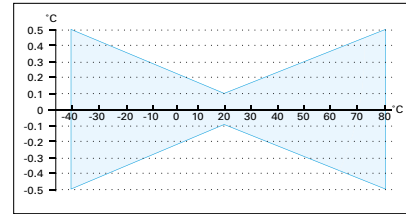
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# Sensor options (supplied separately)

## J140 EE07-02 RH/T probe

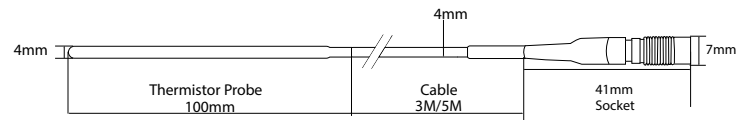
<b>Temperature Probe</b>	<b>PT1000 (Tolerance class A)</b>
Temperature operating range	-40°C to +80°C (restricted by instrument operating range)
Cable operating range	-40°C to +80°C
Temperature accuracy	+/- 0.1°C at 20°C (see temp accuracy chart)
Long term drift	< 0.1°C per year
<b>Humidity Probe</b>	<b>Capacitive Polymer</b>
Recommended range	0-100% RH non condensing
Accuracy	+/- 2% (0-90%) +/- 3% (90-100%)
Temperature dependence	<(0.025+0.0003xRH)[%RH/°C]

Temperature accuracy chart for EE07 probe



## J095-3-05/J095-5-05 Remote precision thermistor probe 3mtr/5mtr (other cable lengths available)

Probe operating range	-40°C to +60°C (restricted by instrument operating range)
Accuracy	+/- 0.1°C between -10°C to +40°C +/- 0.3°C outside these extremes
Long term drift	< 0.1°C per year



## Y300 Short precision thermistor probe sensor specification

Probe operating range	-40°C to +60°C (restricted by instrument operating range)
Accuracy	+/- 0.1°C between -10°C to +40°C +/- 0.3°C outside these extremes
Long term drift	< 0.1°C per year

