RL4116 transmitter

Pro RL4000RH/T Series

Part of the **Hanwell Pro** RL4000RHT Series, the RL4116 Unit combines a C-Sense external temperature probe, EE07-02 relative humidity probe and integral PT1000 temperature sensor.

The instrument includes an LCD display and 434.075MHz frequency as standard.

Features

- Combined temperature & humidity measurement
- \checkmark LCD display with 33,333 data readings per channel & up to 2 years battery life
- ✓ Superior performance hardware & highly accurate sensors
- ✓ Easily accessible battery & USB socket
- ✓ Low power radio for long distance transmission (3km over open ground)
- $\checkmark\,$ Complies with RoHS, EU & WEEE directives and carries CE and UKCA Marking

Typical Applications

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

Instrumentation specification

Dimensions	110 x 80 x 35mm (Excl. ancillaries)		
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		
System Humidity Accuracy (Transmitter Unit + Sensor) with J140 or J223 Pro			
Temperature dependence	< (0.025 + 0.0003 x RH)[%RH/°C]		
Temperature accuracy	+/- 0.1°C at 20°C (see temperature accuracy chart)		
Humidity accuracy	+/- 2% (0 - 90%) +/- 3% (90 - 100%)		
System Temperature Accur with Y300, J095, J254 or Y	racy (Transmitter Unit + Sensor) /306 Probes		
Temperature accuracy	+/- 0.2°C between -10°C to +40°C +/- 0.4°C outside these extremes		
Long term drift	< 0.1°C per year		
Transmitter Unit			
Measuring ranges	Temp: -40°C to +60°C RH: 0 to 100% RH (in a non-condensing RH environment)		
Operating range	-20°C to +60°C (in a non-condensing RH environment)		
Storage temperature	-40°C to +60°C		
Thermistor accuracy	+/-0.1°C		

Resolution Tem

Version 8 - EC210068

Temp: 0.1°C, **RH:** 0.1%

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Product code: RL4116-434.075

Always ask for a long-range signal strength test.

We can prove ours to be unrivalled.

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	
Software compatibility	EMS - All Versions	
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

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RoHS

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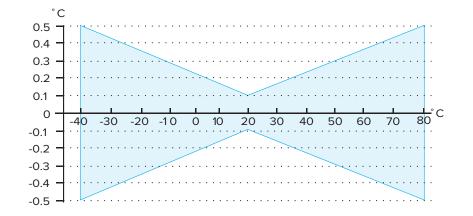
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Temperature accuracy chart

Refers to EE07 Probes (J140 and J223)



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