

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
- ✓ 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)
- ✓ 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)



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

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 Probes

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 Accuracy (Transmitter Unit + Sensor) with Y300, J095, J254 or Y306 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	Temp: 0.1°C, RH: 0.1%

Manufactured by Ellab Monitoring Solutions



Version 8 - EC210068

Disclaimer: The information contained herein is believed to be reliable. Ellab Monitoring Solutions Ltd is not responsible for any incorrect or incomplete information on this datasheet and the information or product may be changed without notice. Customers should obtain and verify the latest relevant information before placing orders for Hanwell products.

hanwell.com

Tel: +44 (0)1462 688070 | Email: sales.hanwell@ellab.com

Temperature accuracy chart

Refers to EE07 Probes (J140 and J223)

