

RL4109 transmitter

Pro RL4000RH/T Series

Part of the **Hanwell Pro** RL4000RHT Series, the RL4109 outdoor transmitter combines temperature and humidity measurements and is configured to 434.075MHz frequency as standard.

Features

- ✓ Combined temperature & humidity measurement for outdoor use
- ✓ 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
- ✓ Supplied with wall bracket

Typical Applications

- Outdoor comparative data

Always ask for a long-range signal strength test.



We can prove ours to be unrivalled.

Instrumentation specification	
Dimension (Excl. ancillaries)	150 x 88 x 50mm
Weight	485 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)



Temperature



Humidity



Radio transmitter

Product code: RL4109-OD-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

Manufactured by Hanwell | Ellab RoHS

Version 4 - EC190194

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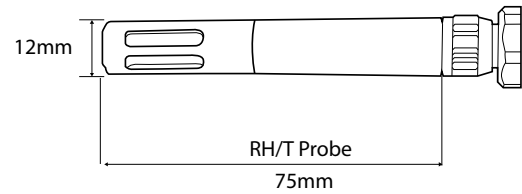
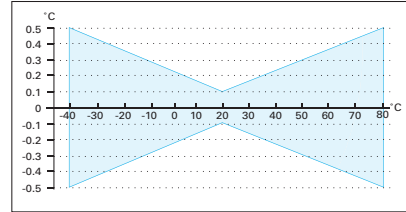
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Sensor (supplied with unit)

J140

Temperature Probe	PT1000 (Tolerance class A)
Temperature operating range	-40°C to +80°C (restricted by instrument operating range)
Temperature accuracy	+/- 0.1°C at 20°C (see temp accuracy chart)
Long term drift	+/- 0.05°C per year
Humidity Probe	Capacitive Polymer
Recommended range	0-100% RH non condensing
Accuracy	+/- 2% (0-90%) +/- 3% (90-100%)
Temperature dependance	<(0.025+0.0003xRH)[%RH/°C]

Temperature accuracy chart for EE07 probe



Solar and rain shield

T351-G18

Operating environment	
Operating/Storage temperature	-40°C to +80°C
Maximum wind speed	75 m/s (168mph)
Shielding performance	
Shielding efficiency <i>(temperature rise/error due to incident solar radiation)</i>	2.3°C/KW/m ² at 1m/s typical
Mechanics	
Diameter	76mm
Shield materials	Nylon/polyamide, polycarbonate, ABS, aluminium, stainless-steel
Overall height	118mm
Typical weight	110g

