

# 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.



Temperature



Humidity



Radio transmitter

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 if using an integral, onboard, probe -40°C to +60°C if using a compatible external probe, connected via an extension cable
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: 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
Software compatibility	<b>EMS</b> - All Versions <b>Synergy</b> - All Versions <b>RadioLog 8</b>
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 - EC200116

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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

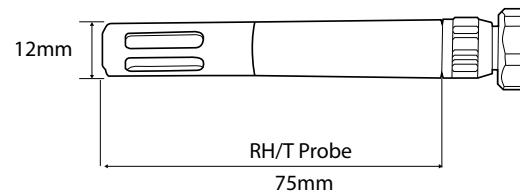
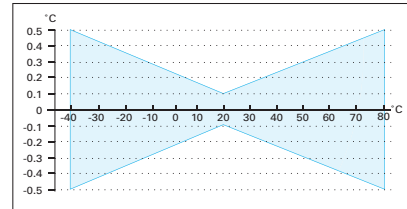
Humidity Probe Capacitive Polymer

Recommended range 0-100% RH non condensing

Accuracy +/- 2% (0-90%)  
+/- 3% (90-100%)

Temperature dependance  $<(0.025+0.0003 \times RH)[\%RH/^{\circ}C]$

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 2.3°C/KW/m<sup>2</sup> at 1m/s typical  
(temperature rise/error due to incident solar radiation)

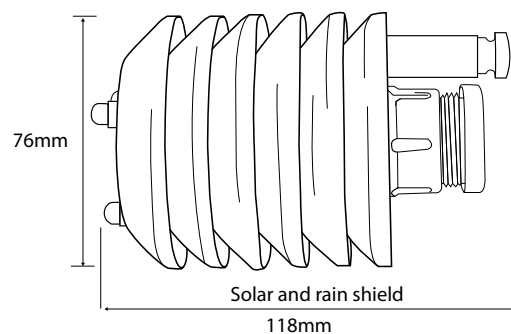
Mechanics

Diameter 76mm

Shield materials Nylon/polyamide, polycarbonate, ABS, aluminium, stainless-steel

Overall height 118mm

Typical weight 110g



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