

RL4413-DU transmitter

Pro RL4000-DU Series

Part of the **Hanwell Pro** RL4000-DU Series; the RL4413-DU combines highly accurate temperature and relative humidity measurement with light indication. It is designed around the EE07 RH probe, Y300 thermistor and integral digital light sensor*, though can use any Hanwell Pro Thermistor probe.

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

*Note: Light is monitored by a digital sensor which only distinguishes between light and dark and does not give a value for the brightness of the incident light.

Features

- ✓ Rugged, durable enclosure with a minimum IP rating of 50
- ✓ Combined temperature, humidity and light-dark sensing
- ✓ LCD display showing data readings and a battery life indicator
- ✓ 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 and WEEE EU directives and carries CE and UKCA Marking

Typical Applications

- Animal houses and areas where the monitoring of periods of light and dark are required

Always ask for a long-range signal strength test.



We can prove ours to be unrivalled.



Product code: RL4413-DU-434.075

Instrument specifications

Dimension (Excl. ancillaries)	160 x 90 x 50mm
Weight	350 grams
Power supply	1 x 3.6V AA Lithium battery
Case material	ABS
Clock accuracy (logging)	20 ppm at 25°C
IP Rating	IP50

System Humidity Accuracy With J140 or J223 Probes

Recommended range	0-100% RH non-condensing
Temperature dependence	< (0.025 + 0.0003 x RH)[%RH/°C]
Humidity accuracy	+/- 2% (0 - 90%) +/- 3% (90 - 100%)

System Temperature Accuracy With Y300, J095, J254 or Y036 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: -20°C - +60°C RH: 0-100% RH non-condensing Light: On/Off default threshold 65 LUX
Operating range	-20°C to +60°C (non-condensing RH environment)
Storage temperature	-40°C to +60°C
Resolution	0.1°C (temperature) 0.1% RH (humidity)
Temperature accuracy	+/- 0.1°C

Battery life	Up to 8 months, dependent on conditions of use and instrument settings. This value determined under the following conditions: Tx Interval - 300 seconds. Ambient Temperature +22°C +/- 3°C.
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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
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	SR2 – Smart Receiver REP – Repeater

Accessories

Y550	Wall mounting bracket
Y055	USB Cable
88706	3.6V AA Lithium battery
Probe options	Please refer to the Hanwell Pro Sensor datasheet

Manufactured by Ellab Monitoring Solutions



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