

RL4402-DU transmitter

Pro RL4000-DU Series

Part of the **Hanwell Pro** RL4000-DU Series, the RL4402-DU is a dual channel temperature transmitter using 4 wire PT100 sensors.

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

Features

- ✓ Rugged, durable enclosure with a minimum IP rating of 50
- ✓ Dual Channel PT100 instrument
- ✓ LCD display showing data readings and a battery life indicator
- ✓ 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 and WEEE EU directives and carries CE and UKCA Marking

Typical Applications

- Poultry or Fish processing areas where wash down occurs
- Outside areas with a high moisture content

Always ask for a long-range signal strength test.



We can prove ours to be unrivalled.



Product code: RL4402-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	
Memory capacity	50,000 readings per channel for dual channel unit (unit will wrap when full)	
Clock accuracy (logging)	20 ppm at 25°C	
IP Rating	IP66 (with probes in place and covers on)	
System Accuracy with:	IN-PT141.5, PT1410, IN-PT1420, IN-PT143, IN-PT1430, IN-PT145	IN-PT143-CAL IN-PT145-CAL
Probe operating range	-90°C to +110°C	-200°C to +110°C
Accuracy -50°C to +110°C	+/- (0.25+0.002* t)°C	N/A
Accuracy -100°C to +110°C	N/A	+/- (0.25+0.002* t)°C
Accuracy Below -50°C	+/- (0.4+0.005* t)°C	N/A
Accuracy Below -100°C	N/A	+/- (0.4+0.005* t)°C
Long term drift	+/- 0.1°C per year ¹	+/- 0.05°C per year ¹

¹dependent on conditions of use

Note: These probes should not be used unprotected in LN2 applications

Transmitter Unit

Measuring range	-200°C to +110°C (dependent on probe selection)
Operating range	-20°C to +60°C (in a non-condensing RH environment)
Storage temperature	-40°C to +60°C
Accuracy	+/- 0.1°C
Resolution	0.1°C

Battery life

Up to 18 months, dependent on conditions of use and instrument settings.
 This value determined under the following conditions:
Tx Interval - 300 seconds
Logging Interval - 15 Minutes
Ambient Temperature +22°C +/- 3°C

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 IceSpy Sensor datasheet Note: The RL4402-DU transmitter employs Hanwell IceSpy probes