

ML4109-DU transmitter

Pro ML4000-DU Series

Part of the **Hanwell Pro** ML4000-DU Series; the ML4109-DU outdoor transmitter provides highly accurate temperature and humidity measurement using a combined EE07 and PT100 probe and utilises the 434.075 MHz frequency as standard.

Features

- ✓ Rugged, durable enclosure with a minimum IP rating of 50
- ✓ Combined temperature & humidity measurement for outdoor use
- ✓ 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 and WEEE EU directives
- ✓ Carries CE and UKCA Marking
- ✓ Supplied with wall bracket

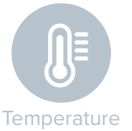
Typical Applications

- Outdoor comparative data monitoring

Always ask for a long-range signal strength test.



We can prove ours to be unrivalled.



Product code: ML4109-DU-434.075

Instrument specifications

Dimension (Excl. ancillaries)	150 x 88 x 50mm
Weight	485 grams
Power supply	1 x 3.6V AA Lithium battery
Case material	ABS
Memory capacity	50,000 readings per channel (unit will wrap when full)
Clock accuracy (logging)	20 ppm at 25°C
IP Rating	IP54
System Accuracy (Transmitter Unit + Integral Sensor)	Temp: +/- 0.1°C at 20°C (see temp accuracy chart) RH: +/- 2% (0 - 90%) +/- 3% (90 - 100%)
Transmitter Unit Measuring range	Temp: -20°C to +60°C RH: 0 - 100%
Transmitter Unit Operating range	-20°C to +60°C (in a non-condensing RH environment)
Transmitter Unit Storage temperature	-40°C to +60°C
Resolution	0.1°C (temperature) 0.1%RH (humidity)

Battery life Up to 2 years, 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 *See EMS datasheet for further options
Software compatibility	EMS - Version 1.0.9 or higher Version 2.0.5 (Compliant) or higher
Hardware required	CR2 / CR3 – Controller SR2 – Smart Receiver REP – Repeater

Accessories

Y549	Non-removable mounting bracket
Y055	USB Cable
88706	3.6V AA Lithium battery
Probe options	Please refer to the Hanwell Pro Sensor datasheet

Manufactured by Hanwell | Ellab RoHS

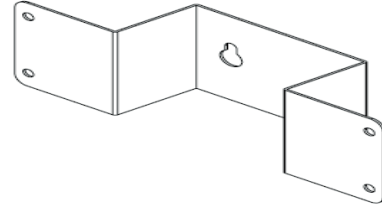
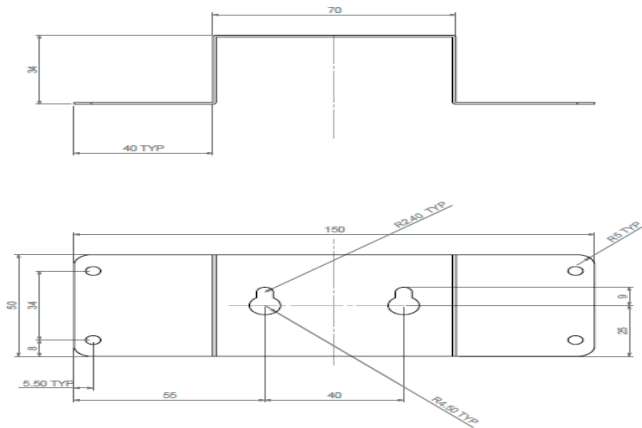
Version 1 - EC200174

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Y459 mounting bracket



Solar and rain shield

P311

Operating environment

Operating/Storage temperature: -40°C to +80°C

Shielding performance

Shielding efficiency (temperature rise/error due to incident solar radiation): 2.3°C/KW/m² at 1m/s typical

Mechanics

Diameter: 76mm
 Shield materials: Nylon/polyamide, polycarbonate, ABS, aluminium, stainless-steel
 Overall height: 118mm
 Typical weight: 110g

