

# RL4502/09 transmitter

## Pro RL4000 DP Series



Differential Pressure



Radio transmitter

Part of the **Hanwell Pro** RL4000DP Series, the RL4502 (no display) / RL4509 (LCD display) differential pressure transmitters with 434.075MHz frequency as standard.

### Features

- ✓ Wireless data transfer
- ✓ High performance technology with accurate sensors
- ✓ User accessible battery and USB socket
- ✓ Up to 2 years battery life
- ✓ Low power radio for long distance transmission
- ✓ Complies with RoHS, EU and WEEE directives
- ✓ Carries CE Marking

### Typical Applications

- Filter monitoring
- Air ventilation systems

Always ask for a long-range signal strength test.



We can prove ours to be unrivalled.



Photo shows: RL4502-457.600 (left), RL4509-457.600 (right) (other frequencies are available)

### Instrumentation specification

Dimension (Excl. ancillaries)	110 x 80 x 35mm
Weight	200 grams
Power supply	1 x 3.6V AA Lithium battery
Battery life	Up to 2 years (dependent on conditions of use and instrument settings)
Case material	ABS & PC
IP Rating	IP30
Instrument operating range	0°C to +50°C in a non-condensing RH environment
Storage temperature	-40°C to +60°C
Memory:	100000 readings

### 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	<b>RL4502 and RL4509:</b> *EMS - All Versions <b>Synergy</b> - All Versions <b>RadioLog8</b>
Hardware required	CR2 / CR3 – Controller SR2 – Smart Receiver REP – Repeater

**\*IMPORTANT:** Customers with **EMS Version 1.0.8** should contact Hanwell Technical Support ([support.hanwell@ellab.com](mailto:support.hanwell@ellab.com)) for advice before buying and ask them for the **Management Tools DP and Digital Patch for EMS patch.**

Manufactured by Hanwell | Ellab RoHS

Version 4 - EC200114

**Disclaimer:** The information contained herein is believed to be reliable. Hanwell Solutions Ltd. is not responsible for any incorrect or incomplete information on this datasheet and the information or product may be changed without notice. Customers should obtain and verify the latest relevant information before placing orders for Hanwell products.

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# Sensor (supplied with unit)

## Product codes

RL4502	+/-1250Pa
RL4509	+/-50Pa
Y119	Wall mounting bracket
Y055	USB communications lead
P106	Differential Pressure port mounting plate

## Internal pressure sensor      Miniature silicon sensor

For Part Code	RL4502
Probe operating range	+/- 1250 Pa (restricted by instrument operating range)
Accuracy (offset and linearity)	+/- 6.75 Pa in temperature compensated range 10°C and 30°C
Resolution	+/- 0.4 Pa
Pressure Connector	2 x 3.2mm outside diameter, 1.6mm inside diameter tube, 2m long
Long term drift	+/- 5Pa per year

*Note: Units purchased from July 2017 are not suitable for use with RadioLog. Specification applies to units supplied August 2017 onwards.*

## Internal pressure sensor      Miniature silicon sensor

For Part Code	RL4509
Probe operating range	+/- 50 Pa (restricted by instrument operating range)
Accuracy (offset and linearity)	+/- 1.5 Pa in temperature compensated range 10°C and 30°C
Resolution	+/- 0.4 Pa
Pressure Connector	2 x 3.2mm outside diameter, 1.6mm inside diameter tube, 2m long
Long term drift	+/- 1 Pa per year

*Note: Units purchased from July 2017 are not suitable for use with RadioLog. Specification applies to units supplied August 2017 onwards.*