

# 4000DP

## Differential Pressure Monitoring

The 4000DP is a differential pressure transmitter delivering exceptional performance. The sensor utilises a silicon micro machined, stress concentration-enhanced structure to provide a very linear output to the measured pressure. The ports are designed with matched dead volumes. This series is intended for use with non-corrosive, nonionic working fluids such as clean dry air and dry gases. The transmitter ID, transmission speed and calibration data is programmed into its onboard memory using a software package which automatically recognises the type of unit connected to the PC via the USB lead. The unit is fitted with a custom-designed LCD to indicate current readings, battery life remaining and alarm conditions.

HANWELL 



For ease of use and convenience, the transmitter is fitted as standard with two meters of silicone tubing for straightforward installation into ventilation and filtering systems. The instrument has a large clear display for local indication of pressure conditions. The transmitter is powered by a 3.6V Lithium battery, which can be replaced by the user. The battery life is dependent on the transmission speed.

An indicator on the LCD will warn when the battery is low, and the transmitter maintains a record of when the battery has been changed. The RL4000 range has been designed to comply with the RoHS and WEEE EU directives, and carries the CE mark. For applications such as clean room differential pressure measurements, please see the 5000DP transmitter.

### Product Features

- Wireless data transfer
- High performance technology with accurate sensors
- LCD display with data readings and battery life
- User accessible battery and USB socket
- Up to 18 months battery life (dependent on use)
- Low power radio for long distance transmission (Over 3km over open ground)
- Complies with RoHS, EU and WEEE directives
- Carries CE Marking

### Benefits

- Provides ongoing record of differential pressure
- Unrivalled radio technology
- Wireless range can reach up to 3km on open ground
- Can be easily integrated into an existing Hanwell system

Always ask for a long-range signal strength test.

We can prove ours to be unrivalled.

CE  RoHS

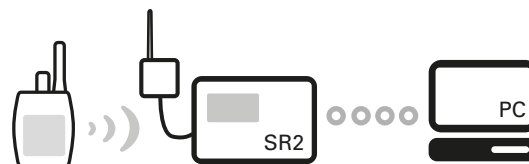
## TECHNICAL SPECIFICATIONS

### RADIO TRANSMITTER FUNCTIONS

<b>Frequency options:</b>	A range of frequencies are available between 433-458MHz. Country specific regulations apply.
<b>Radio power:</b>	10mW
<b>Radio range:</b>	3km over open ground
<b>Battery life:</b>	Up to 18 months (dependent on use)
<b>Software required:</b>	W700 – Standard Synergy Software Package W706 – Validated Synergy Software Package *See Synergy datasheet for further options
<b>Hardware required:</b>	CR2 – Controller SR2 – Smart Receiver REP – Repeater
<b>Accessories:</b>	Y055 – USB communications lead Y119 – Wall mounting bracket

*This product can be calibrated to your specifications, contact us for further details. N.B Instrument operating range -20°C to +60°C in a non-condensing RH environment.*

### Radio System (requires radio receiver)



#### Disclaimer

The information contained herein is believed to be reliable. The IMC Group 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 IMC products.

Version 2

4502



Radio transmitter code: RL4502-434.075 (other frequencies available)

## SPECIFICATIONS

### Instrumentation Specification:

Dimensions:	197 x 106 x 60mm
Weight:	300 grams
Power supply:	1 x 3.6V AA Lithium battery
Case material:	ABS

### Technical Specification:

Pressure Sensor	Miniature silicon sensor
Range	+/- 1250 Pa
Accuracy	+/- 5 Pa
Resolution	1 Pa
Pressure Connector	2 x 3.2mm outside diameter, 1.6mm inside diameter tube, 2m long

### 4502 – Radio transmitter

Single channel dp unit fitted with LCD

4509



Radio transmitter code: RL4509-434.075 (other frequencies available)

## SPECIFICATIONS

### Instrumentation Specification:

Dimensions:	197 x 106 x 60mm
Weight:	300 grams
Power supply:	1 x 3.6V AA Lithium battery
Case material:	ABS

### Technical Specification:

Pressure Sensor	Miniature silicon sensor
Range	+/- 50 Pa
Accuracy	+/- 0.5 Pa
Resolution	1 Pa
Pressure Connector	2 x 3.2mm outside diameter, 1.6mm inside diameter tube, 2m long

### 4509 – Radio transmitter

Single channel dp unit fitted with LCD