

## Differential pressure monitoring

The Hanwell 5000DP radio telemetry transmitter, designed for use with a Hanwell environmental monitoring system. The units are in IP65-rated cases and are suitable for use in tough environments. Utilising an integral temperature compensated pressure sensor the RL5405 differential pressure transmitter delivers exceptional performance. The sensor utilises 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, noionic working fluids such as clean dry air, dry gases and the like.

# 5000DP



The media-wetted materials are the silicon diaphragm, glass-filled nylon, RTV and alumina ceramic. The transmitter ID, transmission speed and calibration data is programmed into its onboard memory using Synergy, a software package which automatically recognises the type of unit connected to the PC via the USB lead.

Fitted with a custom-designed LCD to indicate current readings, battery life remaining and alarm conditions. There is an instantaneous display update button located on the front panel. Pressure connections are made via quick release Lemo pressure connectors, which avoid damage to the pressure sensor when disconnecting for calibration. The transmitter is typically powered by a 2 x 3V C Cell Alkaline batteries\* or optional 12V DC external power supply, which can be fitted by the user. 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 battery life will be dependent on the transmission interval

### 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

- Assists with national regulatory compliance
- Provides users with the tools to maintain a stable environment
- Reduces the risk of contamination or loss

Always ask for a long-range signal strength test.

We can prove ours to be unrivalled.



5405



Radio transmitter code: RL5405-434.075 (other frequencies are available)

## SPECIFICATIONS

### Instrumentation Specification:

Dimensions:	197 x 106 x 60mm
Weight:	300 grams
Power supply:	2 x 1.5V C Cell Alkaline batteries
Case material:	ABS

### Sensor Specification:

Pressure Sensor	Miniature silicon sensor
Range	±50 Pa (other ranges available on request)
Accuracy	+/- 0.5 Pa
Resolution	0.1 Pa
Pressure Connector	2 x Lemo pressure connectors

## RADIO TRANSMITTER FUNCTIONS

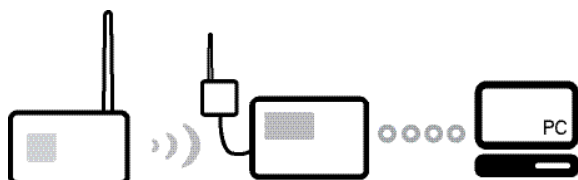
Frequency options:	A range of frequencies are available between 433-458MHz. Country specific regulations apply.
Radio power:	10mW
Radio range:	3km over open ground
Battery life:	Up to 18 months (dependent on use)
Software required:	W700 – Standard Synergy Software Package W706 – Validated Synergy Software Package *See Synergy datasheet for further options
Hardware required:	CR2 – Controller SR2 – Smart Receiver REP – Repeater (where required)
Accessories:	G204 - 1.5V Alkaline C cell battery Y123 - Wall mounting bracket V137 - Versilic tubing

*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.*

### RL5405 – Radio transmitter

Single channel DP unit. Fitted with LCD.

### Radio system (requires radio receiver)



#### Disclaimer

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