



Above: rI5405 pressure connections are located underneath, top connections (as shown above) are optional

New from Hanwell is the rI5400 dp radiotelemetry transmitter, designed for use with the Radiolog 8 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 rI5400 differential pressure transmitter delivers 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, dry gases and the like.

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 Radiolog 8, 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 2.7V 2700mAh battery pack, which can be fitted by the user. The battery life will be dependant on the transmission speed. Larger battery packs are available, local power input is also an option. 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 rI5400 range has been designed to comply with the RoHS and WEEE EU directives, and carries the CE mark.



## rI5000 differential pressure

**Product Code** RL5405.xxx.xxx\*  
**Series** rI5000  
<sup>1</sup> Not available in US  
<sup>2</sup> Only available in US

### Typical Applications

- ° Measuring positive, negative and differential pressures
- ° Pharmaceutical industry
- ° Clean rooms
- ° Laboratories

### Instrument

**Dimensions:** 197 x 106 x 60 mm  
**Weight:** 300 grams  
**Case Material:** ABS  
**Power Supply:** 2 x C Cell Alkaline 3V  
**Operating Humidity Range:** 0...95% RH, non-condensing  
**Operating Temperature Range:** -20°C to +60°C (fully compensated)

### Pressure Sensor

**Type:** 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

**\*Radio Frequency:**  
**Fixed frequency modules**  
 434.075 MHz<sup>1</sup>, 433.920 MHz  
**Synthesised modules**  
 433.875 to 434.650 MHz in 25KHz increments<sup>1</sup>,  
 458.650 MHz<sup>2</sup>  
**Radio power:** 10 mW  
**Radio range:** 3 km over open ground

### Communications & Software

**PC Software:** 32 bit Windows  
**Minimum O/S:** Windows 2000, Windows XP, Windows NT

### Accessories

**Code**  
 Y055 USB communications lead  
 W250 USB configuration tool (required for users with software earlier than 8.3)  
 Y123 rI5400 wall mounting bracket  
 V133 Red silicone tubing  
 V134 Blue silicone tubing