



**rl-8000**  wireless

## Radiologgers

T E M P E R A T U R E & H U M I D I T Y

### Typical Applications

- Pharmaceutical industry
- Storage and warehousing
- Laboratories
- Quality control
- Validation
- Temperature/RH mapping

### Options & Accessories

- GSM output module
- Ethernet (TCP/IP) module
- Memory module
- Battery backup module
- Traceable calibration
- CFR21 part 11 compliant software

The rl8000 is a highly flexible solution to a wide variety of low-speed instrumentation problems. The unit offers 8 configurable input channels and a variety of communication options including radio telemetry, TCP/IP and direct wired.

With up to 24bit resolution, the rl8000 offers a data scanning rate of up to once/second with full 50/60Hz rejection. They directly support a wide range of common sensors including PT100's, thermocouples, 4-20mA and bridge devices. The design of the input circuitry ensures that high standards of stability are maintained, with precision calibration becoming a straightforward operation performed via custom software.

The rl8000 is fully compatible with Hanwell Radiolog software and can be readily mixed with the rl2000 2-channel units.

In situations where a number of sensors are physically close it is possible to create a local system whereby up to 3 rl8000 slaves unit communicate with one master unit on a local bus, with the master providing the communication interface to the outside world. This flexibility results in a highly cost effective solution to many real-world measurement and monitoring problems, with the radio telemetry option resulting in minimal installation requirements.

The devices offer 1.5kV isolation between the inputs and the communication outputs, with connections made via readily accessible terminal blocks.

### Specification

(Accuracy quoted is combined instrument and sensor)

ISO9001:2000 certified

<b>Dimensions</b>	216mm x 117mm x 48mm (aerial)	<b>Inputs</b>	Directly support a range of common process sensors including:		
<b>Weight</b>	780 grams		PT100	0-10V	
<b>Power supply</b>	12 volts DC		Thermistors	Thermocouples	
<b>Channels</b>	8 user configurable		4-20mA	Pressure sensors	
<b>A/D</b>	12, 16 or 24 bit with 0.006uV sensitivity auto zeroing and self calibrating		0-1V	Bridge devices	
<b>Network isolation</b>	1.5kV	Different probe types can be used simultaneously. Each channel is user configurable via internal DIP switches, giving optimal accuracy for each sensor type. On board memory for storing sensor configurations i.e individual thermocouple tables.			
<b>Max. scan rate</b>	Once per second				
<b>Radio frequency</b>	434.075 MHz (standard)				
<b>Radio Power</b>	10 mW				
<b>Range</b>	2 miles over open ground				
<b>Transmit rate</b>	4 seconds to 3 minutes	<b>Outputs</b>	RS232	GSM	RF
			RS485	STDN	Ethernet (TCP/IP)



- DATALOGGERS
- CONTROL PRODUCTS
- TEMPERATURE
- RADIOLOGGERS
- HUMIDIFIERS/DEHUMIDIFIERS
- RADIO TELEMETRY

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