W Radiologger - Transmitter

HANWELL
MONITORING & CONTROL

rl8000 Radiologger

Product Code	RL8000-FF-P3
Series	rl8000

Typical Applications
Monitoring in:
° Pharmaceutical industry
° Storage and warehousing
° Laboratories
° Quality control
° Validation
°Temperature/RH mapping
° Flood detection

Instrument
Dimensions: 216 x 117 x 48 mm (aerial)
Weight: 780 grams
Power supply: 12 volts DC
Case material(s): Brushed stainless steel
Channels: 8 user configurable
A/D: 12, 16 or 24 bit with 0.006uV sensitivity auto zeroing and self calibrating
Network isolation: 1.5kv
Max scan rate: Once per second
Radio frequency: 434.075 MHz (standard)
Radio power: 10 mW
Range: 2 miles over open ground
Transmit rate: 4 seconds to 3 minutes

rl8000 radiologgers are 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 rl-8000 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 radiologgers offer 1.5kV isolation between the inputs and the communication outputs, with connections made via readily accessible terminal blocks.

Inputs
Directly support a range of common process sensors including:

PT100	0-10V
Thermistors	Thermocouples
4-20mA	Pressure sensors
0-1V	Bridge devices

Options & Accessories
° GSM output module
° Ethernet (TCP/IP) module
° Memory module
° Battery backup module
°Traceable calibration
° CFR21 part 11 compliant software

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