



rh-tw  
wireless

Left: with display, right without display.

## Radiologgers

TEMPERATURE & HUMIDITY

### Typical Applications

- Monitoring without wires
- Condition monitoring
- Storage monitoring
- Verify BMS systems
- Remote plant control
- remote heating control

### Options & Accessories

- Remote probes
- radio booster
- Display version
- Improved calibration
- Mounting/security brackets
- User calibration kit

Small, discreet and fully portable these incredibly versatile sensors are available in many combinations, temperature/relative humidity and Lux/UV, CO<sub>2</sub>, wood moisture, flood detection and many more.

All Hanwell humidity-measuring instruments use Vaisala humidity sensors to guarantee exceptionally high performance and accuracy. Each sensor contains a micro-controller that switches on the sensors at short intervals. The measurement is then carried out, converted to digital form and then transmitted by low power radio using a protocol that ensures complete accuracy of data transfer to the Hanwell controller (cr-1). The radio system is fully approved and exceeds all specifications enforced by the relevant national authority and requires no additional licence.

The obvious inherent advantages of this option are zero installation costs with no wiring requirement, disruption or

damage to what usually are historically sensitive buildings. Simply place the sensor by the object or the local area to be covered and switch on. The sensors are particularly useful for temporary displays or island showcases due to their absolute portability. Each sensor is powered by its own internal battery, which lasts 18 months and is easily replaced. A "battery low" indication is displayed on the controller, warning of the requirement for battery change prior to complete power loss. A failure in transmission is also flagged by the controller unit.

Hanwell utilise the latest proven technology in their sensors to guarantee high performance and accuracy. Calibration and adjustment is easily effected through the software programme so no physical adjustment is required. Relative humidity sensors can be calibrated to national standards and annual calibration may be carried out on-site or in Hanwell's own purpose equipped labs.

### Specification

(Accuracy quoted is combined instrument and sensor)

ISO9001:2000 certified

<b>Dimensions</b>	110mm x 67 x 23mm	<b>Temperature</b>	
<b>Weight</b>	65 grams	<b>Range</b>	-25°C to +80°C
<b>Power supply</b>	9 volt PP3 battery, typical life 18 months	<b>Accuracy</b>	+/- 0.5 °C
<b>Humidity range</b>	0-100% non condensing		
<b>Humidity sensor</b>	Vaisala capacitive polymer		
<b>Humidity accuracy</b>	+/- 2% over full range		
<b>Humidity resolution</b>	1%		
<b>Temperature sensor</b>	Precision Thermistor		
<b>Channels</b>	2	<b>Humidity</b>	
<b>Radio frequency</b>	434.075 MHz (up to 32 other channels available)	<b>Range</b>	0 to 100% non condensing
<b>Power</b>	10mW	<b>Accuracy</b>	+/- 2% over full range
<b>Range</b>	2 miles over open ground		
<b>Transmit rate</b>	4 seconds/5 minutes		