



HP **lux-uv**  wireless

Radiologgers

L U X A N D U V

Typical Applications

- Monitoring without wires
- Lux and UV monitoring
- Ageing tests
- Verifying lighting schemes
- Monitoring unoccupied spaces
- Monitoring window filters

Options & Accessories

- Remote probes
- Radio booster
- Improved calibration
- Mounting/security brackets
- Non standard ranges available
- Lux only version
- UV only version

It is recognised that one of the major causes of damage to works of art, fine furniture, carpets, wall coverings and museum exhibits is light falling on the objects.

The most damaging part of the light is its ultraviolet (UV) content. Hanwell provide a range of instruments that enable the conservator to measure the levels of Lux and the UV content of light.

These instruments provide the conservator with the necessary information to protect their valuable exhibits. Using proven Hanwell radio technology, on-line measurements can be taken of the proportion of UV present ($\mu\text{W}/\text{lumen}$), the total amount of UV (mW/M^2), and the amount of visible light (Lux).

Areas that would have previously required expensive and disruptive wiring can now be monitored by radio sensors with minimum disturbance of the environment,

The Hanwell Lux/UV radio telemetry sensors measure Lux in the range 10 to 2000 Lux. This is generally sufficient for conservation environments where a Lux of over 600 is not normally desired, but higher ranges can be supplied on request. The UV range is 10 to 1000 $\mu\text{W}/\text{Lumen}$. The sensor is calibrated against a reference light source with known Lux and UV values. This calibration information is entered via the PC software. Multiple calibrations can be entered corresponding to light sources having different spectra.

Specification

(Accuracy quoted is combined instrument and sensor)

ISO9001:2000 certified

		<i>Lux</i>	
Dimensions	110x67x23mm	Visible wavelength range	400 to 700 nM
Weight	65 grams	Visible power range	10 to 2000 lux (other ranges available)
Case material	ABS	Accuracy	+/- 1%
Power supply	9 volt PP3 battery, typical life 18 months		
Lux sensor	Photometric diode detector	<i>UV</i>	
Colour response	Human eye	UV proportion range	10 to 1000 $\mu\text{W} / \text{Lumen}$
UV sensor	UV enhanced silicon photodiode	UV power range	0 to 2000 mW / m^2
Angular response	Cosine	UV wavelength range	250 to 400 nM
Channels	2	Accuracy	+/- 1% (calibration spectrum)
Radio frequency	434.075 MHz (up-to 32 other channels available)		
Power	10 mW		
Range	2 miles over open ground		
Transmit rate	4 seconds / 5 minutes		