

UVX Radiometer

Easy-to-use radiometer provides fool-proof method for measuring ambient radiation levels in the short, mid and long range



The CON-TROL-CURE® UVX Radiometer delivers exceptional simplicity to make operation as fool-proof as possible. With a continuous battery monitor, the "Battery Condition Indication" LCD warns the operator of insufficient voltage to prevent inaccurate readings. If the battery is installed backwards, the "Reverse Battery Correction" feature stops the circuit flow immediately to protect the internal circuitry.

Once the UVX has been turned On, a one second "Self-Test Mode" provides immediate indication if all LCD segments (numerals, decimal points, and colon) are operative. Turn the "3-position Range Switch" to select from low, mid and high sectors. Then, simply plug in the appropriate probe (the radiometer uses 3 remote interchangeable probes), set the "External Zero Adjust" to read "00.0" on the LCD, and you're ready. If the incident radiation is greater than the range chosen, the number "1" will light up in the far left segment of the LCD. When this "Over Range" indication occurs, choose a higher range to make a correct measurement.

Once the range changes have been made, the zero adjust is set to read 00.0 on the LCD. The probe can then be placed in the UV environment and the intensity reading will be shown on the display. Available as an option, the "Chart Recorder Output" can provide continuous monitoring.

Each UVX probe is calibrated for measurement in its own UV band. Calibrations are accurate to within +/-5% and traceable to the National Bureau of Standards. Linearity is proven and checked to within +/-1% over the total operating range.

A 3-foot shielded cable allows the placement of the probe in hard-to-reach locations. Full exposure is not required as accurate readings are possible as each probe's cosine sensitivity is nearly perfect. The short wave and mid-range probes are equipped with a UVG filter which solarizes at such a slow rate so that the lifespan of these two sensors is dramatically increased for thousands of hours of high sensitivity transmission. Each sensor has a tripod mount which is built into the bottom of each probe, its attachment is made with a 1/4-20 internal thread coupling.

Radiometer Specifications

- Conversion Rate: 2.8 readings/second
- Display: 3-1/2 digit LCD
- Accuracy: +/-2%
- Linearity: +/-1%
- Resolution: 1 part in 1999
- Sensitivity Ranges:
 - 0 to 19.99 mW/cm²
 - 0 to 199.9 uW/cm²
 - 0 to 1999 uW/cm²

Probe Specifications

- Accuracy: +/-5% (includes NBS standard)
- Linearity: +/-1.0%
- Temperature Coefficient: +/-0.04%° C nominal
- Cable Length: 3 feet/91.5 cm

Operating Environment

- Temperature: 0 to 50° C
- Humidity: 5% to 90% RH

Spectral Response Range of Sensors

Model	Calibration Point	Bandpass
• Short Range	254 nm	250-290 nm
• Mid Range	310 nm	280-340 nm
• Long Range	365 nm	335-380 nm

Part Number

Description

M007-043	CON-TROL-CURE UVX Radiometer
M007-046	Short Range UVX 254nm Probe
M007-045	Mid Range UVX 300nm Probe
M007-044	Long Range UVX 365nm Probe

IMPORTANT: Because of its sensitivity to high heat, the UVX Radiometer is not recommended for use in UV curing systems.

24-HOUR PRODUCT SERVICES

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