PMA 2200 Single Input Radiometer

ELSCOLAB

The PMA2200 is a radiometer, light meter / photometer and UV meter that accepts detectors covering UV, Visible and IR wavelengths.

Solar Light's patented Intelligent Detector Technology* allows the user to interchange detectors without losing the functionality of a single purpose meter. This streamlined model allows all functions to be operated directly from the keypad. The PMA2200 is compatible with ALL PMA21xx series detectors.

Features

- High dynamic range (6.5 digit display).
- Select from over 30 stock detectors.
- User selectable units.
- Dose integration capability.
- 2-line LCD with anti-glare screen.
- Displays minimum and maximum reading.
- Accepts a detector with up to 4 signals.
- Displays average reading.
- Programmable I/O.
- Built-in ratiometric capability.

Applications

- Measuring light from UV to IR.
- Scientific research and education.
- SPF testing of sunscreens and cosmetics.
- Accelerated UV exposure testing for color fastness and material stability of paints, textiles and plastics.
- Atmospheric research.
- Photostability testing of pharmaceuticals and cosmetics.
- Photobiological studies of plants, animals and cell cultures.
- Clinical testing of light sensitive patients.
- Quality assurance/control for UV sterilization equipment.
- Phototoxicity research.
- Quality control for curing UV-active adhesives and costing.

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Specifications

- **Light meter, photometer, UV meter and radiometer combined**: measures full spectrum radiation depending on the detector being used.
- **Detector inputs**: 1 detector input with up to 4 analog signals each.
- **Input ranges**: ±4V, single range (autoranging not necessary).
- **Resolution**: 3 microvolts (4V range).
- **Dynamic range**: 2.6 x10^6 (6.5 digits).
- **Accuracy**: Within 0.5% FS.
- **Nonlinearity**: 0.003% integral non-linearity.
- **Temperature coefficient**: 50 PPM/°C Max.
- **Sampling rate**: 3 per second.
- **Screen refresh rate**: 10 per sec.
- **Operating temperature**: 0 to 50°C (non-condensing).
- **Power consumption**: Approx. 110 mw.
- **Batteries**: 4xAA Alkaline batteries.
- **Battery life**: >40 hours continuous use.
- **External power**: 9-12V AC or DC adapter. 100mA min.
- **Weight**: 18 oz. (510 g).
- **Size**: 4"W x 1.75"D x 7.6"H (10 x 4.35 x 19.3 cm).
- **LCD Size**: 2.5" x 0.5" (6.4 x 1.3 cm). Program control 9-button keypadx4.5 cm).

Optional Accessories

- Carrying case with detector storage.
- NIST Traceable Certificate.