

# PMA 2120 UV RADIATION SAFETY SENSOR

**SENSORS**  
INDUSTRIAL LIGHT  
MEASUREMENT  
LABORATORY LIGHT  
MEASUREMENT

Delivery on all products is  
Stock to 2 weeks.

Every product is  
calibrated to NIST  
traceable standards  
before shipment.



When used with the PMA 2100 Radiometer, the PMA 2120 UV Radiation Safety Sensor indicates how long a worker may remain at the measured position before reaching the threshold limit value (TLV) proposed by the ACGIH [1].

If desired, the instantaneous effective irradiance can be displayed in  $\mu\text{W}/\text{cm}^2$ . The radiation can be integrated over time and the dose in  $\text{mJ}/\text{cm}^2$  can be shown on the LCD.

The TLV exposure dose has been chosen by the ACGIH as one that can be tolerated, even if repeated every work day, without causing any long term effect. The TLV for occupational exposure takes into consideration the risks of acute and chronic injury to both an eye and skin.

The eye is the most radiation sensitive organ, therefore the dose which will cause no eye damage is the maximum allowable radiation dose. Actinic ultraviolet radiation (UV-B and UV-C) is strongly absorbed by cornea and conjunctiva. Overexposure of these tissues cause keratoconjunctivitis, commonly referred to as welder's flash or arc-eye.

## Uses

The PMA 2120 UV Radiation Safety Detector gives an accurate measurement of hazardous radiation to which an industrial worker may be subject.

## Alternate Views



## Applications

Industrial and laboratory safety  
Hospital monitoring  
Germicidal lamps monitoring

Commercial lighting  
Safety glass testing

Welding  
UV curing and printing

## Features

High sensitivity  
Dynamic range

2\*105

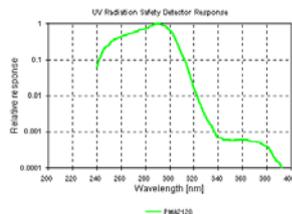
Excellent long term stability  
Cosine corrected

NIST traceable calibration  
Radiometric units and max.  
exposure time

## Specifications

Spectral response Follows ACGIH  
UV hazard action spectrum

Figure 1



Display resolution

0.01 [ $\mu\text{W}/\text{cm}^2$ ] Operating environment 32  
to 120 °F (0 to +50 °C) no precipitation

Cable

5ft (1.5m)

Angular response

5% for angles <60°

Range

1 [ $\text{mW}/\text{cm}^2$ ]

Diameter

1.6" (40.6 mm)

Height

1.8" (45.8 mm)

Weight

7.1 oz. (200 grams)

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