

# E30 ULTRAVIOLET SENSOR



The E30 ultraviolet sensor is a general purpose instrument for measuring the ultraviolet radiation ranging from 250nm to 400nm in unit of  $\text{umols}^{-1}\text{m}^{-2}$  or  $\text{W m}^{-2}$ . The E30 ultraviolet sensor is designed for continuous outdoor use, for application in meteorology and environments, for indoor material testing and others, etc. The E30 ultraviolet sensor consists of a housing with a self-cleaning dome-shaped head, which help prevent water accumulation, the sensor head is potted solid to prevent internal condensation in humid environments for long term operation.

## Technical Specifications :

Sensitivity : Typical  $0.606 \text{ mV per W m}^{-2}$  or  $0.2 \text{ mV per umols}^{-1}\text{m}^{-2}$

Measuring Range :  $0 - 132 \text{ W m}^{-2}$  ;  $0 - 400 \text{ umols}^{-1}\text{m}^{-2}$

Absolute Accuracy :  $\pm 10\%$

Spectral Response : 250 – 400 nm

Signal Output : @  $1.65 \text{ W m}^{-2}$  per mV or @  $5.0 \text{ umols}^{-1}\text{m}^{-2}$  per mV

Cosine Error :  $< 10\%$

Signal Range : @  $0 - 80 \text{ mV}$

Housing Material : PVC head, potted solid

Cable Length : 3M with shielded standard, twisted-pair wire leads

Operating Environment : For continuous outdoor use, can be used and submerged underwater.

Weight :  $< 80 \text{ g}$

Accessory : E-base leveling & fixture