



## FEATURES

The Quantum sensor is to measure photosynthetically active radiation (PAR) ranging from 400 to 700nm waveband. The sensor comes in a very small housing and suitable for different applications:

- Plant science
- Meteorology
- Hydrology
- Horticulture
- Ecology
- Environmental science
- Others

The E90 Quantum sensor consists of a diffusion type of photodiode with filter in a housing. The housing for Quantum sensor is well designed to provide a good cosine corrected response to light coming from different angles. Besides, an interference filter is used to provide a sharp cutoff at 700nm to reduce measuring error.

## SPECIFICATION

◆ Sensitivity	Typical 10 uA (or 1.0 mV with 100 Ohm precise resistor) per 1000 $\mu\text{mols}^{-1}\text{m}^{-2}$
◆ Linearity	Maximum deviation of 1% up to 10,000 $\mu\text{mols}^{-1}\text{m}^{-2}$
◆ Accuracy	$\pm 4\%$
◆ Stability	$< \pm 2\%$ change over a 1 year period
◆ Response time	Typical 1us
◆ Power supply	Not required
◆ Signal output	Typical 1.0mV per 1000 $\mu\text{mols}^{-1}\text{m}^{-2}$
◆ Measuring range	0..1000 $\mu\text{mols}^{-1}\text{m}^{-2}$
◆ Spectral response	400..700nm
◆ Operating Temperature	$-20^{\circ}\text{C}$ to $+70^{\circ}\text{C}$
◆ Cable length	50ft (15M) or 100ft (30M)
◆ Weight	260g

## WIRING CONNECTION

