



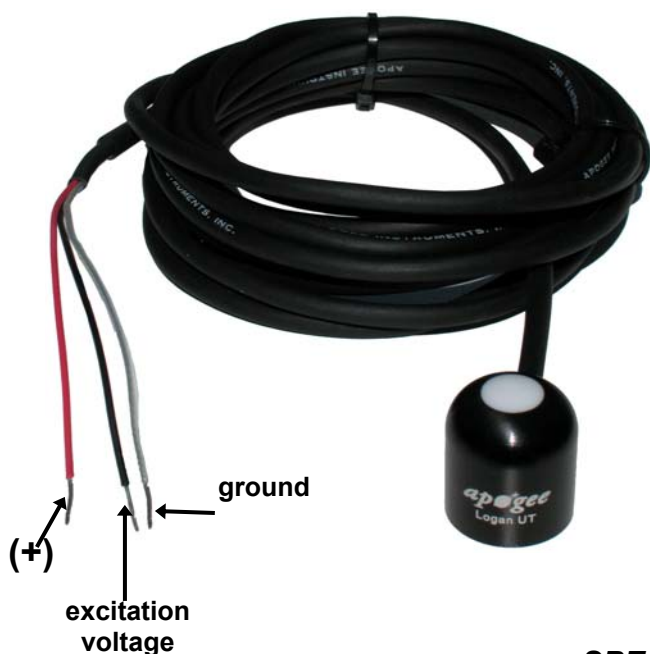
High Output Quantum Sensor

2.5 or 5 V Options

Models QSO-5S, QSO-5E, QSO-2.5S and QSO-2.5E

Helping you make better measurements.

US Patent No. D519,860



Our patented design for continuous outdoor monitoring of photosynthetically active radiation (PAR), with a voltage amplifier in a self-cleaning domed head. PAR is more specifically referred to as the photosynthetic photon flux (PPF).

Potted solid for long-term stability and use in humid environments.

Specify calibration for use in natural (sun, -S) or electric light (-E).

SPECIFICATIONS

SENSITIVITY	QSO-5S and QSO-5E	Calibrated to exactly $0.50 \mu\text{mol m}^{-2} \text{s}^{-1} / \text{mV}$
	QSO-2.5S and QSO-2.5E	Calibrated to exactly $1.00 \mu\text{mol m}^{-2} \text{s}^{-1} / \text{mV}$
OUTPUT	QSO-5S and QSO-5E	0 to 5 V (4.0 V = full sunlight $2000 \mu\text{mol m}^{-2} \text{s}^{-1}$)
	QSO-2.5S and QSO-2.5E	0 to 2.5 V (2.0 V = full sunlight $2000 \mu\text{mol m}^{-2} \text{s}^{-1}$)
		Output linear across voltage range
CURRENT DRAW	285 μA during measurement	
INPUT POWER	QSO-5S and QSO-5E	5 to 5.5 VDC
	QSO-2.5S and QSO-2.5E	2.5 to 5.5 VDC
OPERATING ENVIRONMENT	-40 to 55 °C; 0 to 100% relative humidity. Designed for continuous outdoor use. Can be submerged underwater.	
MATERIALS	Anodized aluminum with acrylic lens	
CABLE	3 meters of shielded, twisted-pair wire with Santoprene casing, ending in pigtail leads. Sensors can be built with additional cable for \$1.95/meter.	
DIMENSIONS	2.4 cm diameter, 2.75 cm high	
MASS	70 g (with 3 m lead wire)	
WARRANTY	1 year parts and labor	

Sun / Electric Difference

This sensor is calibrated for either sunlight or electric lamps. The calibration differs by about 12%.