



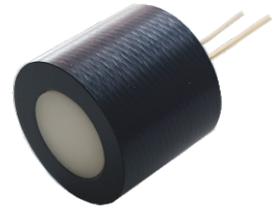
TAG PAR Quantum Sensor TAG-PARQ

Skye Instruments have been specialising in light and radiation sensors since 1983. All are designed, manufactured and calibrated to the highest standards. Each is supplied with a Calibration Certificate traceable to the UK's National Physical Laboratory (NPL).

The TAG PARQ is the miniature version of the PAR Quantum (SKP 215), it is intended to be fully encapsulated in a tag housing to make it suitable for submersion.

This sensor measures the Photosynthetically Active Radiation between 400-700nm, the part of the spectrum used by plants for photosynthesis and sugar production.

The sensor is calibrated in units of $\mu\text{mol m}^{-2} \text{s}^{-1}$ (number or quanta of photons). Sensors are suitable for use in natural solar radiation or other lamps or light sources.



TAG-PARQ SPECIFICATIONS

Construction - Material Dupont 'Delrin'

Sensor - Cosine corrected head

Detector - Blue enhanced planar diffused silicon

Filters - Optical glass

Sensitivity - current (1) - $0.015 \mu\text{A}/\mu\text{mol m}^{-2} \text{s}^{-1}$

Working range (2) - $0-5 \times 10^4 \mu\text{mol m}^{-2} \text{s}^{-1}$

Linearity error - $<0.2\%$

Absolute calibration error (3) - typ. $<3\%$, 5% max

Temperature coefficient - $\pm 0.1\%/^{\circ}\text{C}$

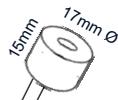
Longterm stability (4) - $\pm 2\%$

Temperature range - -35 to $+75^{\circ}\text{C}$

Humidity range - $0-100\%$ RH

Weight - 5g

Dimensions -



Measures Photosynthetically Active Radiation
Counts quanta of photons in $\mu\text{mol m}^{-2} \text{s}^{-1}$
Ideal or square PAR spectrum response
For plant and coral research
Suitable for use in mammal tags
Suitable for natural and artificial light sources

ORDERING INFORMATION

Sensor

TAG-PARQ - PAR Quantum Light Sensor for mammal tagging

NOTES ON SPECIFICATIONS

(1) Current output varies from sensor to sensor. Each individual unit will have a slightly different output. A calibration certificate is supplied with each sensor.

(2) All Skye sensors will work at levels of irradiance well above that found in terrestrial sunlight conditions, room or growth chamber lighting.

(3) Main source of this error is uncertainty of calibration of Reference Lamp. Skye calibration standards are directly traceable to N.P.L. Standard references.

(4) Maximum change in one year. Calibration check recommended at least every two years. Experience has shown that changes are typically much less than figures quoted.

GRAPH

