

QPAR

Portable PAR
measurement station

Phymea®
systems

Created by
Phymea Systems,
QPAR is designed for
professionals to measure the
light perceived by plants.

Beyond the measurement, the QPAR station provides
data directly useful to producers: the potential
photosynthesis of their plants (derived from scientific
models).

Useful for all types of production:

Solanum lycopersicum (Tomato), Cannabis sativa
(Hemp & Medic.), Zea mays (Corn), Arabidopsis
thaliana, and more...

Thanks to **automated calibration** and **3D printing**, this
tool is **reliable** and **affordable** for everyone.

What's PAR?

Photosynthetically Active Radiation (PAR) is the set of
photons whose wavelength activates photosynthesis.
Photosynthesis is active in a wider range of
wavelengths than human perception.

Although light meters are often used in horticulture,
they are not suitable. **In crop production, it is
necessary to use PAR sensors with an appropriate
response spectrum.**

General informations

Sensor:

Accuracy: Typical Error =1%, Max. Error 5% - 1.6m cable

Sensor housing: PLA (vegetal), diffusor: PMMA, cable sheath: TPU

Measurement station:

Resolution of $1\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$ (PPFD) - 8 record slots (+1 slot as reference for time
comparison) - OLED Screen - AUTO OFF function - 9V battery (PP3) -

Station housing: ABS



Test, evaluate, maximize

Save up to **9 measures**.

A reference for a new
lighting for example and 8 current
measurements to compare with the
reference and thus quantify the aging of
the lighting. **The easiest way to
compare:**

- » your bulbs in time
- » lighting systems
- » bulb models



Precise, ergonomic and inexpensive

Our QPAR has been
designed to **produce**

a quality point measurement to
characterise growing environments,
through a **portable and easy to use**
tool.

To limit its price, Phymea has
developed a specific calibration
method, to offer professionals a
powerful and accessible tool, without
compromising the quality of the
measurement.