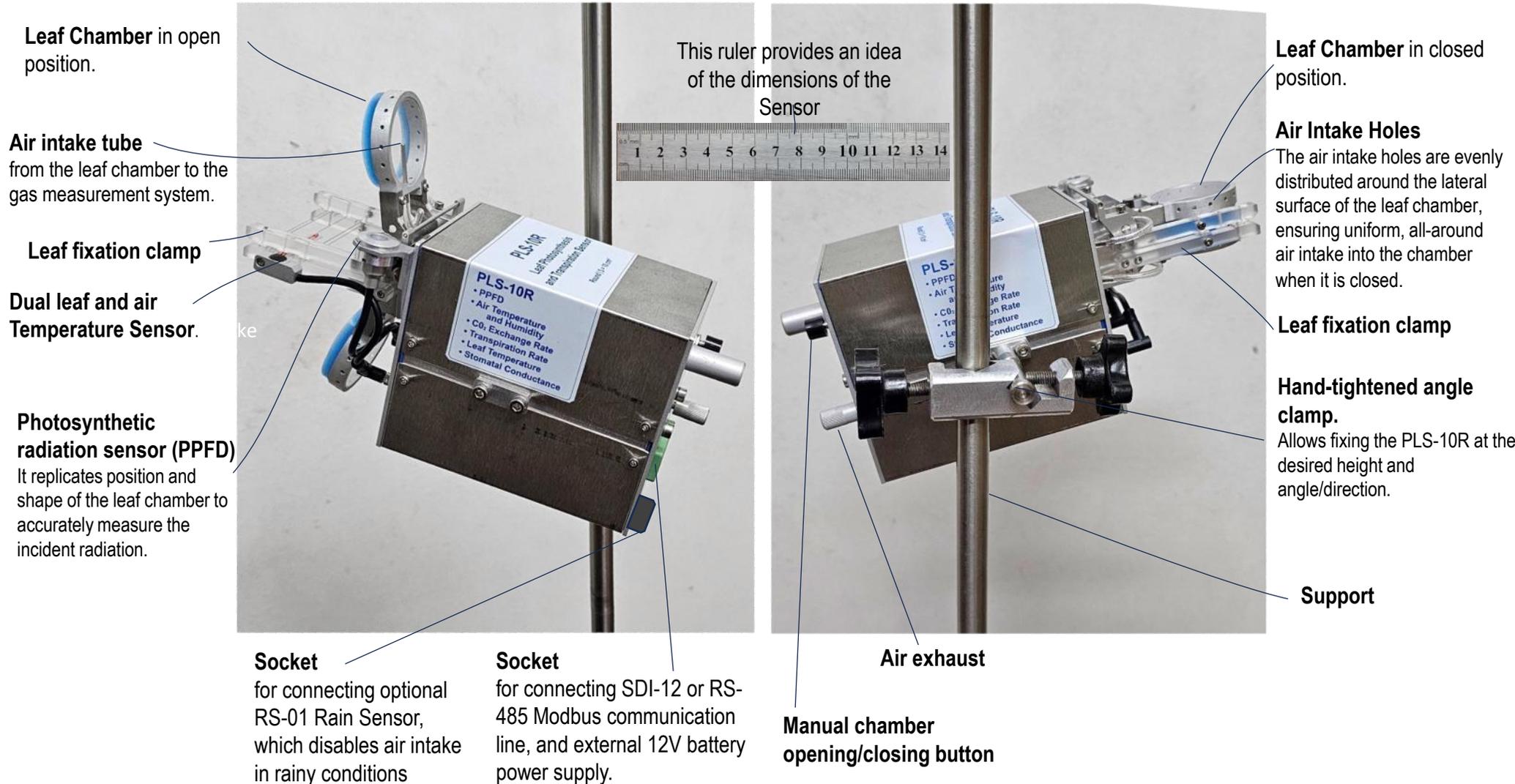


PLS-10R Smart Phyto-Sensor™ Pro

Provides automatic, continuous, non-invasive monitoring of leaf function and immediate microclimate conditions by recording the following measured and derived data:

- CO_2 Exchange rate
- Transpiration rate
- Stomatal conductance
- Leaf temperature
- Leaf-Air Temperature Difference
- Air and Leaf VPD
- Air temperature and Humidity
- CO_2 concentration
- Photosynthetic radiation
- Barometric pressure





Know Your Plant: Empower Scientists and Farmers with Plant Insights!

Our cutting-edge instrument is designed for continuous, non-invasive monitoring of key physiological parameters of plant leaves. Compact, fully automated, and highly accurate, it integrates seamlessly with modern research and agricultural practices, providing comprehensive data for optimized plant care and analysis.

Performance Characteristics

- **Measurement Cycle**

The PLS-10R initiates the measurement cycle upon receiving an external command. The **active phase** of the working cycle—when the leaf chamber is closed and covers a section of the leaf from both sides—lasts only 10 to 15 seconds. This ensures minimal impact of the leaf chamber on the leaf's vital functions. At the end of the cycle, the device saves all results to memory and transmits them via the communication line upon request.

- **Communication**

Supports SDI-12 or RS-485 Modbus communication protocols. It can be integrated into the same lines as other Phyto-Sensors™, communicating via the same protocol.

- **Power Supply**

External 12V rechargeable battery or any other regulated 12V power supply.



Applications

- Academic research on plant physiology.
 - Monitoring plant responses in controlled environments.
 - Precision agriculture and environmental studies.
- Perfect for phenotyping applications.

