

02.04.2025 – 10:30 Uhr

Senseca launches most advanced pyranometer yet: fast response with integrated heater



Padua, Italy (ots) -

Senseca, former Delta OHM, recognized for its expertise in precision measurement instruments, proudly announces the launch of the **LPR10**, the newest addition to its PYRAsense family. Designed for excellence in solar radiation measurement, the **LPR10** sets a new standard with advanced features and robust performance for a variety of applications.

The **LPR10** is a **fast-response spectrally flat class A pyranometer** that adheres to ISO 9060:2018 standards and World Meteorological Organization (WMO) guidelines. Equipped with an **integrated heater**, **tilt sensor**, and **advanced diagnostic capabilities**, this innovative model ensures precise measurements of global irradiance on flat surfaces, even in challenging environmental conditions.

Key Features:

- **Integrated Heater:** Heating automatically activated to prevent dew and frost formation while maintaining uniform temperatures, enabling fast response times and precision even under extreme weather conditions. The heater can also be switched off to save power when not required.
- **Advanced Diagnostics:** Built-in sensors monitor internal temperature, humidity, and pressure, providing proactive maintenance alerts and ensuring optimal operating conditions.
- **Tilt Sensor and Easy Installation:** Includes an integrated bubble level, adjustable feet, and continuous tilt monitoring for accurate and consistent positioning during installation.
- **Real-Time Monitoring:** Fully compatible with DATAsense PC software, enabling configuration, real-time graphical visualization, and data logging for post-analysis.
- **Flexible Integration:** Features RS485 Modbus-RTU output for seamless integration into existing monitoring systems.

The **LPR10** offers unparalleled accuracy with a measuring range of **-200 to 4000 W/m²**, a resolution of **0.1 W/m²**, and a fast response time of less than **0.3 seconds**. Built with durability in mind, the IP67-rated device operates reliably in temperatures from **-40°C to +80°C** and up to 6000 meters in altitude.

Its compact and robust design is ideal for a wide range of applications, including environmental studies, meteorology, photovoltaic (PV) system monitoring and research projects

"We are thrilled to launch the **LPR10**, the most advanced model in our pyranometer series," said Alberto Scarcelli, Product Manager of Senseca Environmental Business Unit "With its innovative technology and reliable performance, the **LPR10** empowers professionals to achieve accurate and consistent solar radiation measurements, even in the most challenging environments."

The **LPR10** is backed by a 6-year extended warranty, ensuring peace of mind for users over the long term.

About Senseca

At Senseca we strive towards excellence in connecting the physical and digital worlds through innovative measurement solutions for a wide range of parameters: level, flow, pressure, temperature, conductivity, light, wind, humidity, as well as measurement of meteorological data.

Our products can be found in all major applications related to megatrends, such as smart factories and cities, renewable energy, agriculture, water management, healthcare, and pharma. Ready to meet the challenges of the IoT.

In accordance with the highest industry and environmental standards, we manufacture our products in our state-of-the-art facilities in Germany and Italy.

Senseca is a team of over 300 dedicated experts united by a passion for top-notch measurement technology and the belief of making a valuable contribution to a sustainable world.

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Medieninhalte



PYRAfast LPR10 - the most advanced pyranometer yet: fast response with integrated heater / More information via ots and www.presseportal.de/en/nr/179042 / The use of this image for editorial purposes is permitted and free of charge provided that all conditions of use are complied with. Publication must include image credits.

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