

New Vaisala Probe Measures Carbon Dioxide in Agriculture and other Demanding HVAC Applications

VAISALA CORPORATION

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Vaisala introduces a new carbon dioxide meter for measuring CO₂ in agriculture, greenhouses, refrigeration and demanding HVAC applications.

Vaisala's new GMP252 probe is intended for CO₂ measurements in harsh and humid environments, where stable and accurate performance is required. Typical applications are agriculture, greenhouses, refrigeration and demanding HVAC applications, such as mushroom farms. The Vaisala CARBOCAP® Carbon Dioxide Probe GMP252 measures from 0 to 10 000 ppmCO₂ and with slightly reduced accuracy even up to 30 000 ppmCO₂.

Helping Plants to Grow

"For example, the GMP252 is optimal for greenhouses, which often have high humidity levels and lots of chemicals present. Carbon dioxide fertilization helps plants to grow, accelerating photosynthesis, and therefore farmers want to keep the CO₂ at an optimal level. Vaisala measurement devices are very stable, need minimal maintenance, and have minimal long-term drift. Stability is an important feature in greenhouses, since a drifting measurement might result in over-using carbon dioxide. That is expensive for the farmer and can even be harmful for the plants," says **Maria Uusimaa**, Product Manager at Vaisala.

The intelligent stand-alone probe provides both analog and digital outputs. The operating temperature ranges from -40 to +60 °C, and the probe has IP65 classified housing: these features makes it suitable for a wide range of measurement applications, for example, in wash-down areas.

Unique Microglow Technology Enables Ultimate Stability and Prolonged Lifetime

The GMP252 uses Vaisala's second-generation CARBOCAP® technology incorporating the microglow light source technology.

"The Microglow chip is a silicon MEMS emitter infrared source, which improves the reliability and stability of the probes to a new level. We have replaced the traditional filament lamp with this unique light source, which enables better accuracy, stability and prolonged lifetime," says Uusimaa.

All products are manufactured in Finland by Vaisala, and include a calibration certificate.



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About Vaisala

Vaisala is a global leader in environmental and industrial measurement. Building on 80 years of experience, Vaisala contributes to a better quality of life by providing a comprehensive range of innovative observation and measurement products and services for chosen weather-related and industrial markets. Headquartered in Finland, Vaisala employs approximately 1600 professionals worldwide and is listed on the NASDAQ OMX Helsinki stock exchange. www.vaisala.com www.twitter.com/VaisalaGroup

Vaisala Controlled Environment business area serves customers in multiple industries with over 40 years of industry knowledge. Our products improve quality, productivity, energy efficiency, and help our customers fulfill regulatory compliance. Controlled Environment customers operate in different types of environments - from semi-conductor factories and high-rise buildings to power plants and small incubators - where reliable measuring and monitoring of the ambient conditions are a prerequisite for successful operations. Customers use our products and systems to measure and monitor temperature, humidity, dew point, pressure, carbon dioxide, moisture and gases in oil.