

BFN-CMS3327 Carbon Dioxide Online Monitor

CMS3327 Carbon Dioxide Monitor Utilizes New Infrared Verification Technology for CO₂ Concentration Measurement, Offering Rapid and Sensitive Response. It Avoids Lifespan and Long-Term Drift Issues Associated with Traditional Electrochemical Sensors. Widely Suitable for Applications Requiring CO₂ and Temperature / Humidity Monitoring Such as Greenhouses, Flower Cultivation, And Edible Fungus Cultivation. The Device Operates on a 10-30V Wide-Range Power Supply with a High Protection Level Enclosure, Enabling Adaptation to Various Harsh Field Conditions. This Product Finds Wide Application in Scenarios like Greenhouses, Flower Cultivation, And Edible Fungus Cultivation.



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Product Features

- ◆ New Infrared Verification Technology for CO₂ Concentration Measurement, Featuring High Accuracy, Minimal Drift, And Long Lifespan.
- ◆ Wide Measurement Range, Default 0~5000ppm, With Built-In Temperature Compensation for Reduced Temperature Influence.
- ◆ 485 Communication Interface Standard ModBus-RTU Communication Protocol, Address and Baud Rate Configurable, Communication Distance up to 2000 Meters.
- ◆ Wall-Mounted Waterproof Enclosure for Easy Installation and High Protection Level.

Product Parameters

Product Model	BFN-CMS3327		
Power Consumption	0.3W (24VDC)	Temperature Range	-40°C~+80°C
Power Supply	10~30V DC (Average Current <85mA)	Temperature Accuracy	±0.5°C (25°C)
System Warm-Up Time	2min (Usable), 10min (Maximum Accuracy)	Temperature Resolution	0.1°C
Response Time	Typically <90s for 90% Step Change	Humidity Range	0~100%RH
Stability	<2%F•S	Humidity Accuracy	±3%RH (60%RH,25°C)
Non-Linearity	<1%F•S	Humidity Resolution	0.1%RH
Resolution	1 ppm	Data Update Rate	2s
Operating Environment	-20°C ~ +60°C, 0%RH ~ 95%RH Non-Condensing		
CO ₂ Measurement Range	0~5000ppm (Default) Optional: 0~2000ppm, 0~10000ppm		
CO ₂ Accuracy	0~5000ppm: ±(50ppm+3%F•S) (25°C) 0~10000ppm: ±(50ppm+5%F•S) (25°C) 0~5000ppm: ±(45ppm+3%F•S) (25°C) 0~10000ppm: ±(45ppm+5%F•S) (25°C)		