



EC22 DS Transmitter

Monitor exhaust gases from
gasoline and diesel engines



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Wherever internal combustion engines are used in enclosed or partially enclosed spaces or buildings, there may be elevated concentrations of carbon monoxide (CO) and nitrogen oxides.

Risks arise both from high instantaneous values and from exceeding the maximum short-term or long-term occupational exposure limits.

The EC22 DS dual sensor transmitter is designed to provide reliable and cost effective monitoring of these gases. Depending on the expected pollution of the ambient air, it is available in the sensor combinations CO/NO and CO/NO₂.



EC22 DS with suitable mounting plate

Measuring principle and communication

The EC22 DS functions according to the proven electrochemical measuring principle. It features linear display behavior, energy efficiency and high sensitivity.

The electronics of the transmitter takes over the stabilization of the voltage, the transmission of the measured values and the detection of faults already at the measuring point. Thanks to the integrated temperature compensation, the highest measurement accuracy is guaranteed.

Signal transmission is digital via the RS-485 interface (Modbus / RTU). Special states and operational readiness are indicated on the transmitter by a multicolor LED.

Easy to service thanks to app* and smart sensors

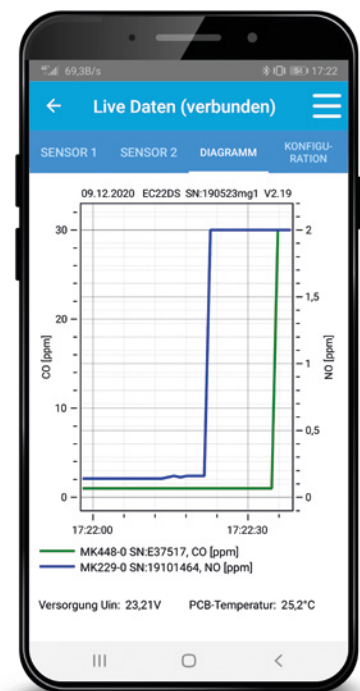
Configuration, adjustment and calibration of the EC22 DS are conveniently performed via app using the infrared interface. This way, the service technician always has all

information about the transmitter at hand and the adjustment of settings is done with one click.

* Use only by service technicians

GfG's smart, plug&play sensors are equally service-friendly. They can be easily replaced and are automatically recognized by the transmitter.

In combination with GfG's powerful controllers, the EC22 DS is the right choice for many applications.



Convenient service per app

Overview of the gases and measuring ranges:

» Carbon monoxide (CO)	0 to 200 / 300 / 500 ppm
» Nitrogen monoxide (NO)	0 to 10 / 20 / 30 / 40 / 50 ppm
» Nitrogen dioxide (NO ₂)	0 to 10 / 20 / 30 / 40 / 50 ppm

EC22 DS Technical Data:

Measuring principle: Electrochemical (EC)
Measuring ranges: Sensor dependent
Gas supply: Diffusion or gassing per calibration adapter
Lifetime of the sensor: >3 years

Response time: Sensor dependent
Temperature: -20 to +50 °C
Humidity: 15 to 90 % r. h. (sensor dependent)
Air pressure: 80 to 120 kPa
Output signal: RS-485

Power supply: 6 to 30 V DC
Housing: Plastic
Protection class: IP40
Dimensions: 97 x 123 x 50 mm (W x H x D)
Weight: 125-150 g

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