

Transmitter EC22

for toxic gases, oxygen and hydrogen



- Long service life of the sensors
- High efficiency and low follow-up costs
- Sturdy plastic housing (IP54)
- Cost-effective single-man adjustment
- Affordable solution for many measuring tasks

Transmitter EC22: The affordable alternative

Are you looking for an innovative and cost-effective transmitter for toxic gases or oxygen, but without the need for explosion protection? Then a GfG transmitter from the 22 series from is the right choice.

Time-proven and innovative is not a contradiction

The EC22 is equipped with high quality GfG sensors. The transmitters are fitted with high-performance electronics for voltage stabilization, processing of readings, and temperature compensation. Follow-up costs are minimized thanks to the long lifespan of the sensors.



Graphic display with control buttons and horn

Universal signal transmission

Either an analogue or digital output signal can be transmitted by the EC22 by means of a Modbus interface. Due to the different types of signal

transmission, a transmitter from the 22 series can be connected to almost any gas detecting system, also as a supplementary or replacement transmitter on existing systems.

Signal processing

The embedded software of the EC22 linearises the measuring signal and compensates for the effects of temperature. As a result, correct readings are transmitted even with weather-related fluctuations in temperature. In addition, the transmitter also offers the option of transmitting service, maintenance, and error messages to a connected gas measuring computer.



Transmitter EC22 and Controller GMA200-MW4

Weather protection

A weatherproof housing not only protects transmitters against exposure to wind and weather, but also against contamination and

excessive temperatures caused by direct sunlight.

Optional coloured graphic display and horn

The clear graphic display of the EC22 is self-explanatory and allows you to read off the current status and other important information with ease. The display enables you to navigate effortlessly through the unit's concise menu and to change settings or even calibrate, depending on your user authorization.



EC22 with weather protection

Calibration adapter

In order to perform regular functional checks involving gassing, a calibration adapter is screwed onto the transmitter, which ensures a uniform and secure supply of gas.

Technical data

Transmitter EC22

Measuring gases:

see table

Measuring range:

see table

Measuring principle:

electrochemical sensor

Gas supply:

diffusion or gassing with calibration adapter

Response time t_{90} :

depends on the type of gas

Expected average lifetime of the measuring cell:

depends on the sensor

Temperature range, humidity and ambient pressure:

depends on the type of gas

Output signal:

0.2 .. 1 mA / 4 .. 20 mA / Modbus

Voltage supply:

18 .. 30 Volt DC

Housing:

Plastic(IP54)

Weight:

up to 325 g (depending on the version)

Dimensions:

98 x 120 x 50 mm

Housing protection type:

IP54

Output signal:

0,2 .. 1 mA / 4

Measuring ranges for further gases on request.

Measuring gas	Measuring range
Ammonia NH ₃	0-200 ppm (100/500 ppm)
Ammonia NH ₃	0-1000 ppm (300/1500 ppm)
Carbon monoxide CO	0-300 ppm (200/2000 ppm)
Oxygen O ₂	0-25 Vol.-%
Hydrogen sulphide H ₂ S	0-100 ppm (30/500 ppm)
Nitrogen monoxide NO	0-100 ppm (50/200 ppm)



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