Transmitter EC22

for toxic gases, oxygen and hydrogen

- Proven electrochemical sensor technology
- O_2, H_2S, SO_2, CO, NH_3, NO (H_2 & other toxics pending)
- Built-in temperature compensation
- IP54
- Low cost of ownership

smart
GasDetection
Technologies

Transmitter EC22: The affordable alternative

Are you looking for an innovative and cost-effective transmitter for toxic gases, Oxygen and Hydrogen without the need for explosion protection? Then the EC22 transmitter is the right choice…!!

Proven technology and innovative is not a contradiction

The EC22 uses the proven electrochemical detection principle. The electronic design ensures voltage stability, accurate processing of the sensor response.

Universal Signals

Analogue or digital values and status displays can be generated from the EC22 by means of a Modbus interface. Due to the different types of signal transmission, an EC22 can be connected to almost any gas detection system, as an additional detection point or as a replacement transmitter on an existing system.

Advantages

The embedded EC22 software linearises the sensor signal and compensates for the effects of temperature, resulting in correct readings even with weather related fluctuations in temperature. The realization of the software allows problems to be detected, plus, the Modbus version also warns when service or maintenance is required.

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 colour display and audible alarm

The clear graphic display of allows you to view the gas type, detection range and real time concentration. On alarm activation the display turns red along with the audible alarm. Password protected, the display enables you to navigate the transmitter menu with the ability to change settings, zero and calibrate.

Transmitter EC22 and Controller GMA200-MW4

CC22 with weather protection

Graphic display with control buttons and horn

Calibration

Quick and easy 1-man calibration.

Technical data

Transmitter EC22

Gases and Ranges:
See Table (other gases on request)

Detection range:
Electrochemical sensor

Detection principle:
Catalytic (pellistor/hot bead)

Gas supply:
Diffusion or pumped via a flow adaptor

Response time time:
Depends on gas type

Expected sensor life:
O_2 – 2 years (replace at 2 years)

Ambient temperature:
-20°C to +50°C

Humidity:
5-90 % r. F.

Voltage Supply:
18-30 VDC

Weight:
Up to 325 g (depending on version)

Dimensions:
98 x 120 x 50 mm

Housing:
Plastic IP54

Output signals:
0.2-1 mA/4-20mA/RS485 (MODBUS)

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_2S	0-100 ppm (30/500 ppm)
Nitrogen monoxide NO	0-100 ppm (50/200 ppm)

Measuring ranges for further gases on request.

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