

# EC 22 Transmitter

Affordable solution for toxic gases, oxygen and hydrogen



- Long service life of the sensors
- High efficiency and low follow-up costs
- Sturdy plastic housing (IP-54)
- Cost effective single-man adjustment
- Affordable solution for many measuring tasks

# EC 22 Transmitter: The affordable alternative

## GfG Instrumentation

GfG Instrumentation is a global leader in the design and manufacture of gas detection products used to protect people, facilities and the environment. For over 50 years we have provided gas detection solutions for life critical health and safety applications. Our innovative and reliable gas warning and measurement systems provide the industry benchmark for accuracy, dependability, and cost-effective ownership.

## EC 22 Series Fixed Transmitters

The EC 22 Series are innovative and cost-effective transmitters for the detection of toxic gases or oxygen levels, but without the need for explosion protection.

## Time-proven and innovative

The EC 22 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.

## Universal signal transmission

Either an analog or digital output signal can be transmitted by the EC 22 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 EC 22 linearizes 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.



EC 22 Transmitter and GMA 200-MW4 Controller



Graphical display with control buttons and horn

# Graphical display and easy operation

## 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.



CC 22 with weather protection

## Optional colored graphic display and horn

The clear graphic display of the EC 22 is self explanatory and allows you to read 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. In the event of an alarm the display changes color from green to red. Two LEDs indicate the status.

## Operation buttons

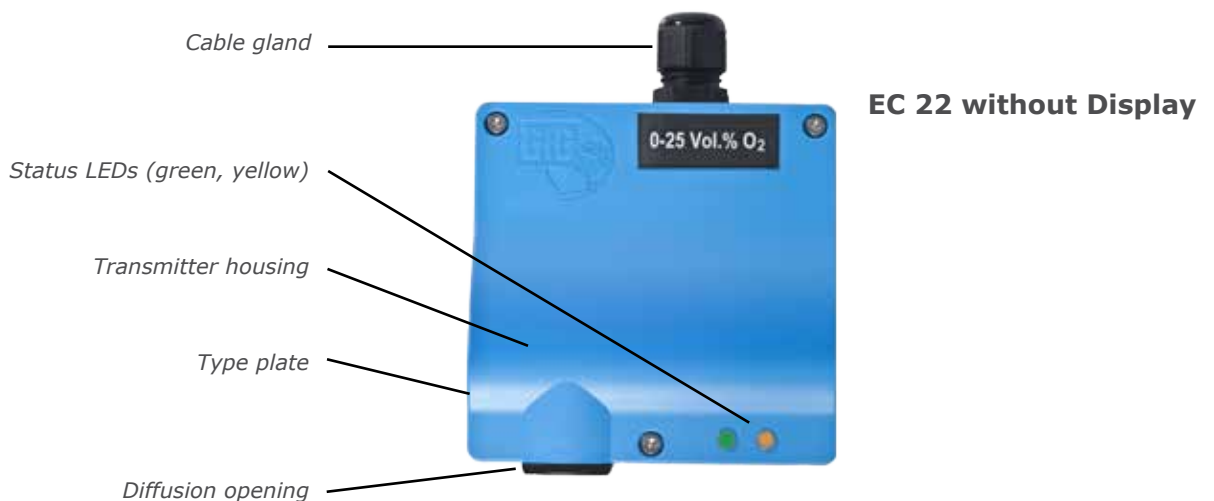
The buttons on the transmitter allow the unit to be calibrated and settings to be adjusted through the menu as needed.

## Calibration adapter

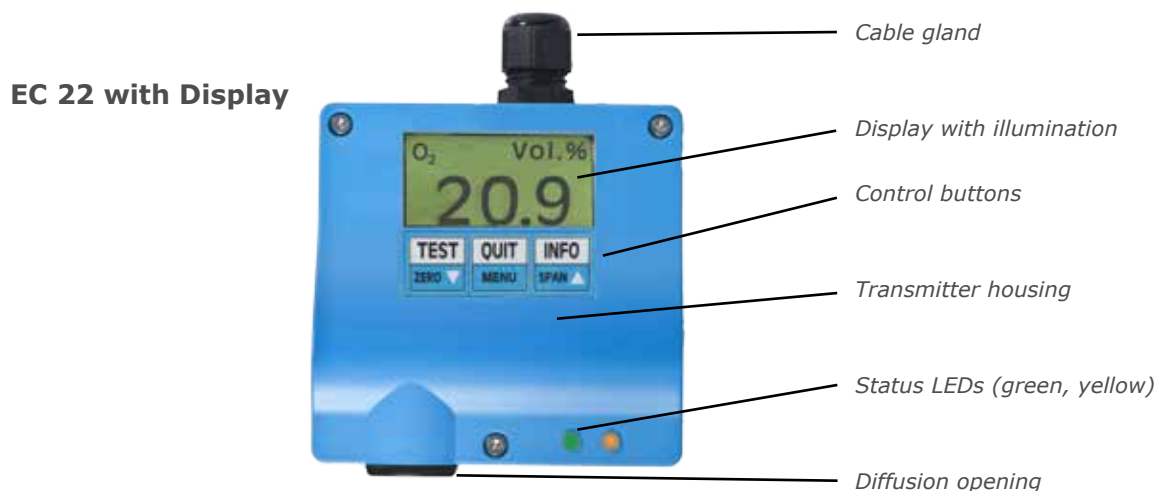
In order to perform regular bump tests, a calibration adapter is used on the transmitter, which ensures a uniform and secure supply of gas.

## Easy and convenient service

GfG offers full after-the-sale commissioning and field service support.



EC 22 without Display



EC 22 with Display

# Technical data

## EC 22

**Gases:**

Non-combustible toxic gases and vapors  
Oxygen (O<sub>2</sub>)

**Detection Range:**

Depends on the type of gas

**Detection Method:**

Electrochemical (EC)

**Gas Supply:**

Diffusion or bump test with calibration adapter

**Response Time  $t_{90}$ :**

Depends on the type of gas

**Expected Sensor Life:**

Depends on the sensor

**Temperature Range, Humidity and Pressure:**

Depends on the type of gas

**Output Signal:**

4-20 mA or Modbus  
Analog or digital

**Power Supply:**

12-30 V DC

**Available Configurations:**

Display  
Blind (without display)

**Housing:**

Material: Plastic

**Weight:**

up to 11.5 oz. / 325 g (depending on the version)

**Dimensions:**

3.9 x 4.7 x 2 in. / 98 x 120 x 50 mm  
(W x H x D)

**Housing Protection:**

IP 54



*Specifications subject to change without notification*



USA and Canada info@gfg-inc.com  
Latin America info@gfg-inc.com  
Germany info@gfg-mbh.com  
South Africa gfgsa@icon.co.za  
Asia Pacific info@gasdetection.asia  
Europe info@gfgeurope.com  
Switzerland info@gfg.ch



### GfG Instrumentation

1194 Oak Valley Drive, Suite 20, Ann Arbor, MI 48108 USA  
Phone: (734) 769-0573 • Toll Free (USA / Canada): (800) 959-0329  
Website: [www.goodforgas.com](http://www.goodforgas.com) • [info@gfg-inc.com](mailto:info@gfg-inc.com)

Worldwide Manufacturer of Gas Detection Solutions  
Rev. 1 (04/05/16)