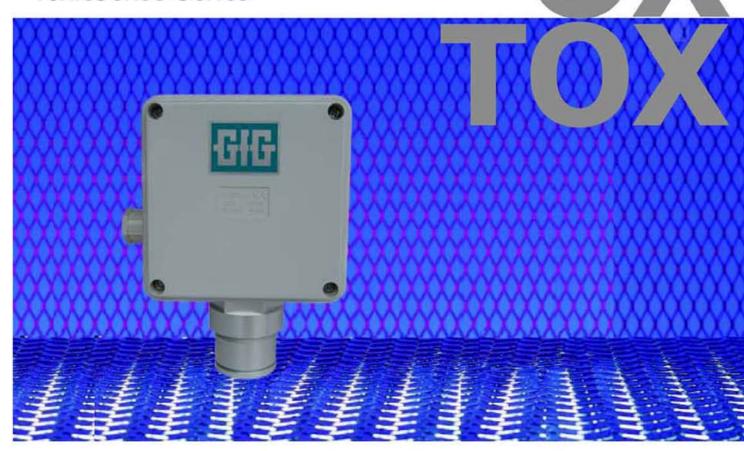
# **Transmitter EC 23**

State-of-the-art monitoring of Oxygen and Toxic Gases

- ToxicSense Series



For use in Non-Hazardous Areas
Sensors with long term stability
High Selectivity
Easy Handling
4 ... 20 mA output signal (linearized)
Microprocessor based
One-man calibration on site
Solid PVC enclosure IP65
Option for relay contact

# Stationary monitoring of Oxygen and Toxic Gases

The Transmitter EC 23 is a low-cost, robust gas transmitter for the monitoring of oxygen and toxic gas concentration in safe environment. Through potentiometer and test sockets behind a service lid, the calibration can be exercised with little hindling onsite. The enclosure protection can be delivered IP 65 as standard and upgradable to IP 68, that means it is dirt, dust and water proof. The transmitter EC 23 can be operated alone or in combination with a **GfG** controller. Its important features are the easy handling and long life.

#### **One-man Auto Calibration**

Simply press a button, the SMART microprocessor will automatically recognize the data inside the sensor, and auto-calibrate itself, without any trimmers.

#### Off-site Sensor Calibration

All **GfG** SMART sensors are pre-calibrated in our lab, and simply install any SMART sensor with no further calibration required. calibration data automatically uploads to the transmitter to ensure precise calibration.

# Rapid Warm-up

Ready to calibrate after power is applied. Does not require bias voltage to stay ready or long wait for stabiliza-

# **EC 23 Series**

# **Technical Data**

# General

#### Gas

Oxygen (O<sub>2</sub>) Carbon Monoxide (CO) Hydrogen Sulphide (H<sub>2</sub>S)

#### **Other Toxic Gases**

Upon Request (refer to Toxic Gas List)

### Sensor Type

EC - Electrochemical Type

#### **Measuring Range**

Oxygen 0 ... 30%Vol CO 0 ... 300, 500 ppm 0 ... 1000, 2000ppm H2S 0 ... 50, 100, 300 ppm

#### **Gas Supply**

Diffusion through stainless steel sintered filter. Flow thru via flow adapter (flow rate 0.5 L/min +/- 0.1 L/min)

#### Fast Response Time

T 90 < 10 - 30 seconds (depending on type of gas)

### Accurracy

+ / - 3% F.S.

#### Repeatability

1% of signal

#### **Output Linearity**

Linear

#### **Expected Sensor Life**

> 2 years (depending on sensor type)

#### **Environmental Conditions**

Temperature : -20 ... +50°C -25 ... +55°C tested

Humidity: 5 ... 95% r.h. Pressure: 950 ... 1100 hPa

# **Signal Connection to Controller**

2 shielded wire LIYCY 2 x 1,5 mm<sup>2</sup>;< 1000m PG 9 gland

#### **Output Signal**

4 ... 20mA

# **Power supply**

18 ... 24 Vdc Less than 25mA

#### Relay

1 Relay contact (optional)

#### Housing

PVC non-Ex proof

## **Casing Protection**

IP 65 for Safe Area Use IP 68, up to 10m water column (optional)

#### Physical measurements

Weight 380gm Dimension 100 x 100 x 50(mm)

#### Display

Non Display type

#### Calibration

Microprocessor based for Auto Zero and Auto Calibration