

CC 0238 Remote Sensors

For Combustible Gases and Vapors



- Simple calibration and setup
- Poison resistant sensors
- Ex-proof housings

Stationary Monitoring of Combustible Gases and Vapors

Protection from combustible gases

In areas where combustible gases are produced, consumed, or stored gas / air mixtures can unexpectedly build up to explosive levels. An early warning for combustible gases is the safest way to avoid life and property threatening environments. Fixed gas detection systems allow early recognition of combustible gases around the clock. A fixed gas monitoring system consists of one or more remote sensors transmitting measurements to a controller.

Detection principle

The detection principle for the measurement of combustible gases in the LEL range is catalytic combustion (CC). The catalytic combustion sensor element is heated. When a combustible gas or vapor comes in to contact with the sensor, the flammable components of the gas are burned on the sensor, changing its electrical resistance. The change in resistance is proportional to the gas concentration.

To ensure stable measurement signals, all GfG remote sensors have integrated electronic circuits for voltage stabilization, signal transmission, and temperature compensation.

Remote sensor

The remote sensor is the key component of a gas detection system. This is why GfG Instrumentation gives high priority to the development of gas detection technology and has been a leader in the industry for over 40 years.

Technical Data

CC 0238 Remote Sensor Series

General

Gas

Combustible gases
(consult manufacturer)

Ranges

0-100% LEL

Gas Supply

Diffusion

Response Time

T₉₀ less than 8 seconds (depending on gas)

Expected Sensor Life

Approximately 5 years

Temperature Range

-40 to +140°F / -40 to +60°C

Humidity Range

15 to 96% rh

Pressure Range

700 to 1,300 hPa

Signal Connection to Controller

3 shielded wire x 18 AWG less than 1,000 feet

CC 0238EX

Output Signal

0.2-1 mA

Power Supply

15 to 30 V, 100 mA

Housing

Aluminum explosion proof
Stainless steel sensor housing

Weight

21 ounces (600 grams)

Dimensions

4x4.4x2.2 inches (100x110x55 mm) (HxWxD)

Ex-Approvals

EX e s 3n G5

Specifications subject to change without notification

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