## **Product Data Sheet**



S1450CO

CO detector, 0-300 ppm, 4-20mA

### General

The SMART3 NC gas detectors represent a non certified version of the SMART3G line and are ideal for non classified areas and car parks. They employ high quality catalytic sensors, electrochemical cells or infrared sensors, that grant an excellent linearity and accuracy, besides an estimated lifetime of 4 years.

### Interface

The SMART 3NC gas detectors provide a proportional 4-20mA output signal. By using optional boards they can either communicate via RS485 serial bus or provide relay outputs. The available outputs are as follows:

4-20 mA. Proportional 4-20mA output current corresponding to the full range (LEL or ppm).
Relay. By adding the FGA110 / STS3REL board, the detector is expanded with 3 potential free relay outputs. One relay is dedicated to the Fault and Watch-dog, while the remaining two relays can be associated with two out of the three available alarm thresholds.

• Serial RS485. By adding the FGC2485C / STSIDI interface, the detector can communicate on the RS485 bus with SENTOX IDI+ and MULTISCAN++S1 gas control panels.



### **Standard Features**

- Superior repeatability and durability
- Microprocessor controlled
- Self diagnostic features
- Drift compensation
- Digital filter
- 4-20mA standard
- Optional relay board
- Optonal RS485 board
- 4 year estimated lifetime

# **S1450CO** CO detector, 0-300 ppm, 4-20mA

### Specifications

CO
Electrochemical cell
0-300 ppm
12-24 Vdc, -20% + 15%
40 mA
4-20mA
0.025mA
with use of FGA110 / STS3REL
with use of FGC2485C / STS/IDI
5 minutes
< 2 minutes
< 20 sec
< 60 sec
3 to 12 months (depending on environment)
4 years
-25 to +60 °C
-10 to +60 °C
20 - 90 % non condensing
IP55
80 - 110 KPa
< 6 m / s
100 x 180 x 65 mm
600 g
Sensor head downwards
non-classified

### **Ordering Information**

Part No. Description S1450CO CO detector, 0-300 ppm, 4-20mA S2396ME Methane detector, 0-100%LEL, 4-20mA S2396GP LPG detector, 0-100%LEL, 4-20mA S2396VB Petrol vapour detector, 0-100%LEL, 4-20mA S2401CO2 CO2 detector, 0-5000 ppm, 4-20mA FGA101 Handheld calibration keypad for Smart 3 series gas detectors FGA102 Adaptor for gas calibration FGA110 3 relay output card for Smart 3 series gas detectors

### Features

The SMART3 NC detectors use a powerful microprocessor that provides the following built-in features:

• Selfdiagnostic procedures to control the correct operation of the hardware and sensor.

• Zero follower to maintain the detector zero point, from possible drift caused by thermal or physical variations of the transducer.

• Digital filter, employed in the digital analysis of the analog sampled values. This filter corrects temporary phenomena from causing reading errors or false alarms.

• Hysteresis cycle: applied to the outputs associated to the alarm thresholds, it prevents continuous output switching when close to the threshold values.

The SMART3 NC detectors offer fast and failsafe installation as well as an easy maintenance and calibration via the handheld keypad FGA101 / STS/CKD.

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