CARBON DIOXIDE-SMART-DETECTOR S2634CO2 FOR EX-ZONE 1

Designed to meet with tough industrial requirements, the Smart-Detector allow monitoring toxic and flammable contents in harsh environments and classified areas.

They offer a 4-digit back-light display and 5 mode status LED for the gas concentration reading.

Ideal in harsh environments, the Smart-Detector feature non intrusive calibration for an accurate and easy adjustment via Hall-effect switches, without opening the instrument and declassifying the area.

The detectors is IP65 protected and SIL2 Hardware tested (not certified) and provides a simple concept to replace sensors. As an option the gas detectors is also available without a display.

SPECIFCATIONS ELECTRONICS

SUPPLY: 24 VDC | **POWER CONSUMPTION:** max. 130 mA | **WIRING ANALOGUE/DIGITAL:** 3×0,75 mm2 up to 100 m, shielded, 2×2×0,75 mm2, shielded | **SIGNAL-OUTPUT ANALOGUE/DIGITAL:** 4...20 mA, Modbus RTU | **OPTIONAL RELAY OUTPUTS:** 1 or 3 | **WEIGHT:** 850...1200 gr | **ATEX CERTIFIED FOR:** Group II 2G (ATEX II2G Ex d IIC T6), 2GD, 3G & GD and for Group I M2 (with larger enclosure)

SPECIFCATIONS SENSOR

MEASURING PRINCIPLE: Infrared | **MEASURING RANGE:** 0...2 Vol. % CO_2 (Type S2635CO2 0...5 Vol. %/ Type S2449CO2 0...30 Vol. %) | **ACCURACY:** +/- 2 % of measuring range | **RESPONSE TIME:** t 90: < 30 sec | **OPERATION TEMPERATURE:** -40 °C ...+60 °C | **HUMIDITY:** 20...90 % (non condensing) | **APPROX. LIFETIME:** > 8 years, depending on applicaton | **CALIBRATION:** It is necessary to inspect the gas detector every 6 month and to recalibrate it only if needed.

DIMENSIONS AND CONNECTIONS

90.0 mm

180.0 mm

130.0 mm

24VDC Bus1	BUS A 2	BUS B 3	0VDC 4	+ Analog 5	S Analog 6
O	O	O	O	O	O

Ex-Gas Detector