

▶ OLCT710 TP

H2S Detector - semiconductor technology



Technical specifications

High performance H2S detector

Technology: Semiconductor

Measuring range: 0-100 ppm standard - 0-20 ppm, 0-50 ppm or 0-200 ppm on demand

Warranty: 2 years on electronics and 5 years on the sensor

Power: 12 - 28 Vcc

Output signals:

- 4-20 mA (linear)
- RS 485 Modbus RTU

Display: 4 character alphanumeric, (measurements & setting)

Power consumption: < 2 watts usual

Accuracy / Repeatability: ± 10% of the reading or ± 2 ppm

Response time: T50<30s - T90<60s

Operating temperature: -40 ° C to + 75 ° C

Humidity range: 15-100% HR (non-condensing)

Material: Aluminium (Optional stainless steel version)

Dimensions (H x l x P): 350 mm x 127 mm x 130 mm

Weight: 3.36 kg (Aluminium) - 7.44 kg (Stainless steel)

Ingress protection: IP66

Certifications:

- ATEX II 2G
- Ex d IIB + H2 T4 Gb

Functional security: SIL2 according to IEC 61508

Wiring (Cable gland M20 x 1.5):

- Output 4-20 mA: 3 wires
- Modbus output: 4 wires (2 pairs)

Product description

The semiconductor technology **OLCT710 TP** is a high performance gas transmitter, specially designed for optimum and reliable operation in the presence of high concentrations of hydrogen sulfide when electrochemical sensors reach their limits.

Certified ATEX and SIL2, it is particularly suitable for extreme temperature (-40 ° C to + 75 ° C) and humidity (15 to 100% RH) conditions, for example on gas installations, oil rigs, offshore platforms or water and wastewater treatment plants.

▶ The semiconductor technology

The **OLCT710 TP** is a gas transmitter featuring a microprocessor designed to be used with a two-layer metal oxide semiconductor high performance sensor: one layer for heating and preserving a constant temperature, and one sensitive to hydrogen sulfide.

This technology is ideal for H2S measurements when the gas is often present in lower or higher concentrations, and when electrochemical sensors reach their limits.

▶ A multifunctional H2S gas detector

The gas sensor's electronic components are entirely protected and immune to water and corrosion. The semiconductor sensor is pluggable and can easily be replaced in the field. The operating interface is designed for non-intrusive maintenance using a magnet.

A LED display shows measurements and detector's status. The detector has two output signals: a 4-20mA analog linear output and a Modbus RS-485 serial output for wiring several devices.

Because it is very important that safety systems are compliant and developed according to standards' requirements, the H2S semiconductor gas detector **OLCT710 TP** is ATEX and SIL2 certified according to the latest edition of the IEC 61508: 2010 standard.

▶ Main features

- Excellent sensors and electronics durability
- Endures high H2S concentrations even continuously
- Use in severe conditions: -40 / +75°C – 15 / 100% HR
- 2 output signals: 4-20 mA and RS485
- Waterproof (IP66)
- ATEX & SIL2 certification

Other **OLCT710 TP** gas sensors are available for explosive gases and carbon dioxide (CO2).