**OLCT710 TP**

**H2S Detector – Semiconductor technology**

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**Product description**

The semiconductor technology **OLCT710 TP** was specially designed to optimum operation and is reliable in presence of H2S hydrogen sulfide high levels when electrochemical sensors reach limitations.

It is particularly well adapted to extreme temperatures (-40°C to +75°C), humidity levels (15 to 100% HR) found 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-layers 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. In this type of environments, semiconductor gas sensors will be much less affected than electrochemical sensors that are very sensitive to a more or less important gas presence.

**A detector with multiple functionalities**

The gas sensor’s electronics components are entirely protected and immune to water and corrosion. The semiconductor sensor is pluggable and can easily be replaces on the field.

The operating interface is non intrusive by way of a small portable magnet. The device configuration and calibration are intuitive and controlled by clear menus. Standard device features an analog 4-20 mA output and a Modbus RS485 output.

**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 et RS485
- Waterproof (IP66)
- ATEX & SIL2 certification

**Other available sensors**

Other gas sensors are available for the OLCT710 TP like catalytic filaments for combustible EXPLO gases, or infrared sensors for hydrocarbons and carbon dioxide (CO2).

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**Technical specifications**

**High performance H2S detector:**

**Technology:** semiconductor

**Range:** standard 0-100 ppm - 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:** alphanumeric, 4 characters (measurements & setting)

**Power consumption:** < 2 watts usual

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

**Response time:** T50 <30s - T80 <60s

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

**Humidity range:** 15-100% HR (no condensation)

**Material:** Aluminium (version acier inoxydable en option)

**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 by IEC 61508

**Wiring** (cable gland M20 x 1.5):
- Output 4-20 mA : 3 wires
- Modbus output: 4 wires (2 pairs)