

CO₂ SENSOR & TRANSMITTER

CH₄, CO, O₂, H₂S
TCOD IR
CO₂, NH₃, Cl₂, O₃, NO, H₂, HCN, SiH₄,



Selective IR
absorption cell



Long life



Robust



Quick detection



CE

OLDHAM

Your environment, your safety,
let's master them together

Infrared CO₂ measurement

The TCOD IR sensor & transmitter continuously measures carbon dioxide (CO₂) concentration according to the IR absorption principle. This dual-beam technology offers several advantages : high degree of selectivity, insensitivity to poisons, no interference and accurate, defined measurements.

Your plant and personnel will be safeguarded from risk across all your applications (cellars, greenhouses, refrigerating units, etc.).

Operating principle

A source generates an infrared beam of a specific wavelength absorbed by CO₂.

The beam passes through the atmosphere to be analysed and a detector converts the CO₂ concentration into an electric signal.

The dual-wavelength technology of the **TCOD IR** compensates for variations in the infrared source and/or the measuring cell.

A modulated IR source coupled with a synchronous detector eliminates all spurious signals.

TECHNICAL CHARACTERISTICS

MANUFACTURER :	• OLDHAM Group
FUNCTION :	• Sensor & transmitter
GAS DETECTED :	• Carbon dioxide (CO ₂)
MEASURING RANGES :	• 0-5000 ppm ; 0-10000 ppm ; 0-5 % ; 0-10 % ; 0-50 %
CASE :	• Lightweight alloy coated with Epoxy paint
SEAL :	• IP 55
OPERATING PRINCIPLE :	• Selective infrared absorption
POWER SUPPLY :	• 18 - 30 VDC
OUTPUT :	• 4-20 mA
CONNECTION :	• Three wires with screen
CONSUMPTION :	• 2,8 W max.
LOOP RESISTANCE :	• 10 Ω
LOAD RESISTANCE :	• 250 Ω
CONFORMITY :	• EMC
DIMENSIONS :	• 125 x 80 x 58 mm
WEIGHT :	• 500 g
OPERATING TEMPERATURE :	• -30°C to +40°C
RELATIVE HUMIDITY :	• 0-95% RH
PRESSURE :	• 1 Atm +/- 10%
RESPONSE TIME :	• 70 s (T90)
ACCURACY :	• Better than 0,02% CO ₂
STABILITY :	• 1,5 % TP
CELL LIFE :	• 5 years

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Your agent or retailer

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DETECTION GAZ / MESURE A L'EMISSION
GAS DETECTION / STACK GAS MONITORING

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