EXD IIC T6 GB · 4–20 MA / RS485 · RELAY

TCM-GD60F

Explosion-proof Fixed Gas Detector

Detects flammable or toxic gas in hazardous areas and raises the alarm early.

Exd IIC T6 Gb | **4–20 mA / RS485** | **Relay Output**



Exd IIC T6 Explosion-proof	**24 VDC** ± 10%	**4–20 mA** 3-wire	**RS485** 4-wire	**Relay** 1 kW contact	**T90 < 30 s** Response	**–20~50 °C** Operating

DESCRIPTION

The **TCM-GD60F** is a fixed gas detector for flammable or toxic gases in the air. When the concentration reaches the preset alarm level, it signals the control panel to sound and flash an alarm, so people can act before an explosion or poisoning occurs.

An industrial-grade sensor sits in an explosion-proof casing. The standard 4–20 mA or RS485 signal goes to a gas control panel or straight into a DCS.

FEATURE

- Explosion-proof enclosure, Exd IIC T6 Gb
- Industrial-grade sensor for flammable or toxic gases
- Stable signal, high precision, fast response (T90 < 30 s)
- Long sensor life and short polarization time
- 4-digit LED display with alarm and fault indicators
- Standard 3-wire 4–20 mA and 4-wire RS485 output
- Built-in relay (1 kW dry contact) for fan or valve
- Optional sound-and-light beacon on the housing
- Works with a control panel or directly with PLC / DCS

TECHNICAL SPECIFICATION

MODEL	TCM-GD60F		
Product Type	Fixed gas detector	**Detected Gas**	Flammable or toxic / harmful gases
Explosion-proof	Exd IIC T6 Gb	**Gas & Range**	Specify when ordering
Sensor	Industrial grade	**Response Time**	T90 < 30 s
Display	4-digit LED (%LEL), display version	**Indicators**	STATE, ALARM1, ALARM2, FAULT; IR window
Supply Voltage	DC 24 V ± 10%	**Signal Output**	3-wire 4–20 mA / 4-wire RS485
Relay Output	Free (dry) contact, full load power 1 kW	**Alarm**	Sound and light (optional beacon)
Operating Temp.	−20 °C to +50 °C	**Humidity**	10–95% RH (no dew)
Housing	Explosion-proof casing, blue or yellow	**Mounting**	Wall / pipe via mounting lugs
Dimension	150 × 190 × 95 mm (W × H × D)	**Connection**	Control panel, PLC or DCS

DISPLAY & INDICATORS



1. **Status LEDs** STATE, ALARM1, ALARM2, FAULT
2. **4-digit LED** live gas reading
3. **IR window**
4. **Unit** %LEL

HOUSING OPTIONS



Display + beacon



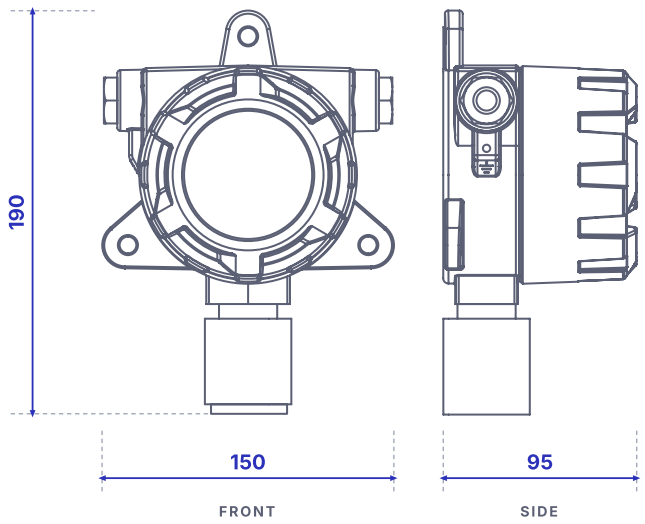
Blue housing



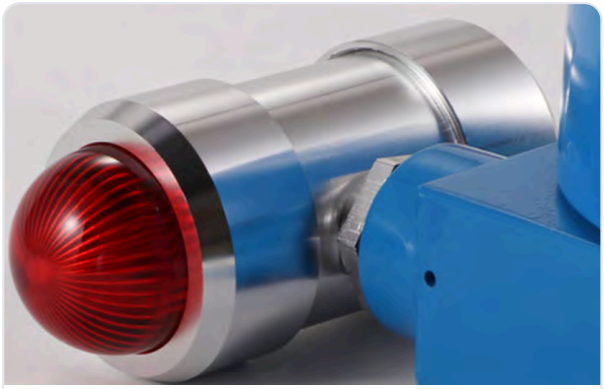
Yellow housing

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DIMENSION (mm)



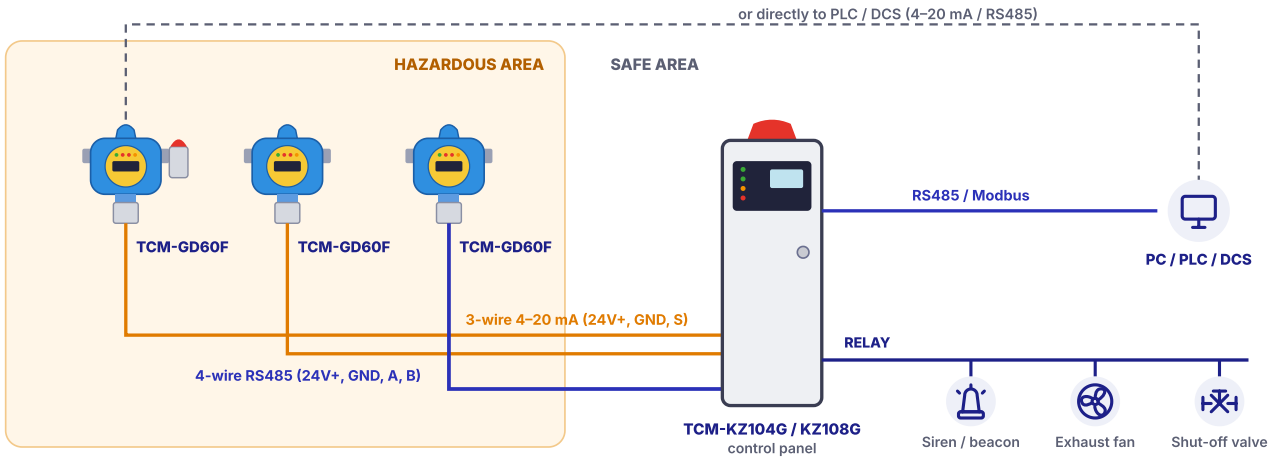
SOUND & LIGHT ALARM



Optional beacon

A red beacon fits on the side gland of the housing. With the control panel, a gas alarm triggers an audible and visual warning on site.

SYSTEM & WIRING



APPLICATION

- Metallurgy
- Petroleum & gas
- Chemical plants
- Municipal utilities
- DCS / SCADA sites

ADVANTAGES

Stable signal Low drift output	**High precision** Accurate reading	**Rapid response** T90 < 30 s	**Long life** Industrial sensor	**Short polarization** Quick warm-up

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