

▶ iTrans 2™

Fixed gas detector



Technical specifications

Material: epoxy coated aluminium

Display: dual-channel split-screen LED display provides simultaneous display of one or two gases

Input voltage: 12-28VDC operating range (24VDC typical)

Power consumption:

- 150mA@24VDC (electrochemical sensor)
- 250mA@24VDC (combustible gases catalytic), 0.8A peak (single gas)
- 170 mA@24VDC (Infrared), 0.5A peak (single gas)
- 350 mA@24VDC (Combined catalytic/Infrared), 1,2A peak (two gas)

Ingress protection: NEMA 4X, IP66

Response time: T50: < 10 seconds and T90: < 30 seconds

Humidity range: 10-90 % HR (non-condensing), typical

Temperature range: -40°C to +75°C (-40°F to +167°F)

Dimensions: 127 x 153 x 129 mm (5.0" x 6.0" x 5.1"), 2.9 Kg (6.4 lbs)

Cable: 3-wire or 4-wire

Maximum cable loop:

- 15 Ohm (3-wire configs)
- 10 Ohm (4-wire configs)

Output signal :

- Standard: 4-20mA (source)
- + RS-485 Modbus (9600 baud)
- Optional: HART Protocol

Alarm relays (opt) : 3 alarm relays 5 A/30VDC, (Two user-programmable relays, SPST, N.O. One fault relay, SPST, N.C.)

Homologations (Sensor Specific) : CCSAUS, ATEX et IECEx, NEPSI, INMETRO

Product description

With its advanced features and numerous options, the **iTrans2** fixed gas detector can provide up to two detection points on a single head for maximum flexibility, increased performance and low installation costs. Capable of detecting explosive, toxic or asphyxiant (lack of oxygen) gases, the **iTrans2** uses "smart" sensors with automatic sensor recognition.

Particularly suitable in industry and classified sites, the **iTrans2** gas detector, with magnetic switch for non-intrusive setting, has a standard display of the measurement(s), and MODBUS communication. A relay card and HART communication is also available as an option.

▶ Highlights

- Detection of explosive, toxic or oxygen gases.
- Non-intrusive calibration.
- "Smart" sensors.
- MODBUS or HART communication protocol.
- Programmable relays.
- Up to 2 detection points on a single head.

Wide range of sensors

The **iTrans2** is compatible with electrochemical cells, catalytic bead and infrared sensors. It is designed to detect the most common industrial gases, allowing standardisation of gas detection equipment.

The pre-calibrated smart sensors automatically feed the parameters into the detector. A cell life indicator is displayed immediately after each calibration.

Non-intrusive calibration

The **iTrans 2**'s non-intrusive interface buttons are operated by a simple magnet. They allow complete transmitter configuration and calibration to be performed without opening the instrument's explosion-proof housing. This is particularly useful in ATEX areas.

Many options available

The microprocessor-controlled transmitters can be operated independently or in a multi-point system configuration. With integrated relays (optional), the detector can also be operated independently,

With the optional HART communication protocol, the **iTrans 2** allows remote diagnostics, configuration or calibration, setting the standard for high-frequency current in the 4-20 mA analog linear range.

Detectable gases

Formula	Gaz	Selectable full scale interval	Resolution
-	Combustible gases	0 to 100 % LEL	1 %
Cl ₂	Chlorine	0,2 to 99,9 ppm	0,1 ppm
ClO ₂	Chlorine dioxyde	0,02 to 1 ppm	0,01 %
CO	Carbon monoxide	0 to 999 ppm	1 ppm
CO ₂	Carbon dioxide	0 to 100 % by volume	1 %
CO ₂	Carbon dioxide	0 to 0,5 % by volume	0,01 %
CO ₂	Carbon dioxide	0 to 5 % by volume	0,01 %
H ₂	Hydrogen	0 to 999 ppm	1 ppm
H ₂ S	Hydrogen sulfide	0 to 500 ppm	1 ppm
HCl	Hydrogen chloride	0,2 to 30 ppm	0,1 ppm
HCN	Hydrogen cyanide	0,2 to 30 ppm	0,1 ppm
NH ₃	Ammonia	0 to 200 ppm	1 ppm
NO	Nitric oxide	0 to 999 ppm	1 ppm
NO ₂	Nitrogen dioxide	0,2 to 99,9 %	0,1 ppm
O ₂	Dioxygen	0 to 30% byvolume	0,1 ppm
PH ₃	Phosphine	0 to 1 ppm	0,01 ppm
SO ₂	Sulfur dioxide	0,2 to 99,9 ppm	0,1 ppm

Optionnal accessories

Reference	Description	Code
77014579	By-Pass / Flow-thru Kit	a
77015303	Splash guard / remote Cal Cup for Toxic, O ₂ , and LEL	b
77024065	iTrans 2 Calibration Wand	c
77023588	iTrans 2 Splash guard	d
77023513	iTrans 2 Calibration Cup	e



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