

► Series 3000 MkII

ATEX 4-20 mA linear output gas transmitter with display



Technical specifications

Detected gases: Cl₂, ClO₂, CO, ETO, F₂, H₂S, HCl, HCN, HF, NH₃, NO, NO₂, O₂, O₃, PH₃, SO₂

Signal: 4-20 mA, 0 to 100 % full scale reading

2-wire loop powered: 17 Vcc (±10 %) to 30 Vcc (max)

Recommended cable: 2-wire with screen (90 % coverage) or conduit 0, 5 mm² (20AWG) to 2, 0 mm² (14AWG)

Material:

- Transmitter : Epoxy painted aluminium alloy LM25 or 316 stainless steel
- Sensor : 316 stainless steel with polytetrafluorethylene filter

Dimensions: 164 mm x 201 mm x 99 mm

Weight:

- Aluminium alloy LM25 : 1,7 kg
- Stainless steel 316 : 3,7 kg

IP rating: IP66 (EN 60529), NEMA 4X

Certified temperature: -20 °C to +55 °C

Operating humidity: 20 – 90% HR (non-condensing)

Certifications:

- CE conformity
- ATEX directive 94/9/CE
- Electromagnetic compatibility 2004/108/CE (EN50270:2006)

Certifications:

ATEX: II 2 (1) GD Ex d [ia IIC Ga] IIB + H2 T4 Gb

Ex t [ia IIIC Da] IIIB T135°C Db

IECEX: Ex d [ia IIC Ga] IIB + H2 T4 Gb Ex t [ia IIIC Da]

UL/c-UL: class I, division 1 & 2, groups B, C & D

class II, division 1, groups E, F & G

class II, division 2, groups F & G

class 1, zone 1, groups IIB + H2 for hazardous areas

ATEX: II2GDExd[ia IIC Ga]IIB+H2 T4 Gb Ex t [ia IIIC Da]IIIB T135°C Db

IECEX: Ex d [ia IIC Ga] IIB + H2 T4 Gb Ex t [ia IIIC Da]

Product description

The **Series 3000 MkII** gas transmitter is a 4-20mA 2-wire loop powered, toxic gas and oxygen detector for use in potentially explosive atmospheres (ATEX area). It is a low power consumption detector that can be integrated into any type of new or retrofit installation. With a large LCD screen and magnetic switches, this detector can be set up non-intrusively using a magnet directly through the glass window of the display.

► Patented Surecell™ electronic sensor

The **Series 3000 MkII** gas transmitter uses Surecell™ electrochemical sensors, ideal for hot and humid environments. Made of stainless steel, the smart sensors are supplied preconfigured, tested and calibrated. They are intrinsically safe and can be replaced under voltage without cutting off power to the detector, thus allowing time savings on commissioning and routine maintenance.

► Patented Reflex™ self-diagnosis

The **Series 3000 MkII** gas detector is equipped with the patented Reflex™ diagnosis sequence that automatically checks whether the sensor is present, in open circuit or in short circuit. If the electrochemical sensor fails these tests, the sensor error code is displayed. The Reflex™ sequence does not apply to nitrogen monoxide and oxygen sensors and does not exempt from regular performance check and calibrations.

► A regulations compliant gas detector

The **Series 3000 MkII** gas transmitter is compliant with the main certifications in force in Europe (ATEX), the United States (UL), Canada (c-UL), South America (Inmetro) and international (IECEX). It is also certified ATEX zone 0 in Europe.

► Accessories

Many accessories are available (optional) to facilitate the installation of the detector, such as the remote sensor mounting kit (up to 15 meters), the pipe fixing kit (for detecting gases flowing in a pipe) or the wheater protection device...

► Applications

- Exploration and drilling platforms
- Onshore oil and gas terminals
- Offshore platforms, refineries
- Chemical industries & SEVESO classified sites
- Water treatment, sewage treatment plants
- Metallurgy, steel industry
- Power stations
- Treatment plants

Detectable gas

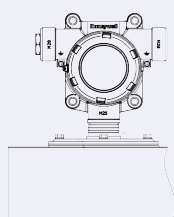


Gazs	Formula	Selectable full scale interval	Code
Ammonia	NH3	50 à 200 ppm	200 ppm
Ammonia	NH3	200 à 1 000 ppm	1,000 ppm
Carbon monoxide	CO	100 à 500 ppm	300 ppm
Chloreine	Cl2	5,0 à 20 ppm	5,0 ppm
Chlorine dioxide	ClO2	1,00 ppm uniquement	1,00 ppm
Ethylen oxide (ETO)	C2H4O	0-25 ppm	50 ppm
Fluorine	F2	0-4 ppm	4 ppm
Hydrogen	H2	1,000 ppm seul.	1,000 ppm
Hydrogen	H2	9,999 ppm uniquement	9,999 ppm
Hydrogen chloride	HCl	10,0 à 20,0 ppm	10 ppm
Hydrogen cyanide	HCN	30,0 ppm uniquement	30,0 ppm
Hydrogen fluoride	HF	12,0 ppm uniquement	12,0 ppm
Hydrogen sulfide	H2S	10,0 à 50,0 ppm	15,0 ppm
Hydrogen sulfide	H2S	50 à 500 ppm	100 ppm
Nitric oxide	NO	100 ppm uniquement	100 ppm
Nitrogen dioxide	NO2	5,0 à 50,0 ppm	10 ppm
Oxygen	O2	25,0 % vol uniquement	25,0 % vol.
Phosphine	PH3	1,2 ppm uniquement	1,2 ppm
Sulphur dioxide	SO2	5,0 à 20,0 ppm	15,0 ppm

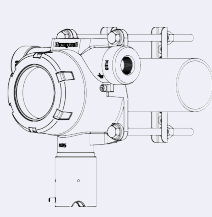
Optional accessories



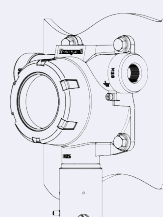
Code	Description
SPXCDMTBR	Pipe mounting bracket
SPXCSDP	Sunshade/Severe weather protection
S3KCAL	Calibration gas flow housing
S3KCC	Collecting cone (for use when detecting Hydrogen gas only)
S3KDMK	Duct mounting kit (for use when detecting O2, CO, H2S or H2 gas)
S3KRMK	ATEX/UL/c-UL approved remote sensor mounting kit (includes enclosure with sensor socket, 15m (50 feet) of digital cable and glands, transmitter cable plus, mounting screws)



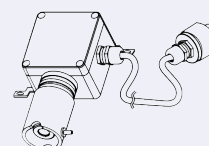
Pipe fixing



Pipe installation



Wall installation



Remote installation

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