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KwikSense Pro

Advanced Smart Gas Detector for Hazardous Industrial Environments

Technical specifications

Sensor and Technologies

- Pre-calibrated, interchangeable smart sensor
- Compatible technologies: electrochemical (EC), NDIR, catalytic sensor, PID, semiconductor (SS), MPS

Display and Interface

- OLED 8×2 character display
- Tri-color status and alarm LEDs
- Non-intrusive configuration and calibration via magnetic wand

Outputs and Communication

- 4-20 mA analog output (linear)
- HART protocol (optional)
- RS-485 MODBUS digital communication
- 3 alarm relays (potential-free contacts)

Power Supply and Consumption

- HART protocol (optional)
- Power supply voltage: 18 to 30 VDC
- Power consumption: < 3 W
- Load resistance: up to 600 ohms

Housing and Environment

- Material: die-cast aluminum or 316 stainless steel
- Protection rating: IP66 (dustproof and water jets resistant)
- Connection: 3 or 4 wires
- Cable entries: 2 x ½" NPT or 2 x ¾" NPT or M20
- Operating temperature: -40 to +65 °C (depending on sensor)

Dimensions and Weight

- Dimensions: 155 x 145 x 100 mm (excluding cable glands)
- Weight: 2.3 kg (aluminum) / 5.0 kg (SS316 stainless steel)

Product description

The KwikSense Pro is a transmitter for hazardous gases such as toxic, flammable, asphyxiating gases, and volatile organic compounds (VOCs) in high-risk industrial environments. Featuring smart, pre-calibrated, and swappable sensors, the KwikSense Pro ensures quick and simplified maintenance.

KwikSense RD Remote Display (Optional)

The KwikSense RD option allows the transmitter's display to be replicated remotely. It is equipped with an OLED screen, alarm LEDs, and accepts a 4–20 mA signal with MODBUS RS-485 outputs. Ideal for hazardous or hard-to-access areas where real-time monitoring is essential.

Certifications

The KwikSense Pro is ATEX certified (II 2 G Ex db IIC T6/T5/T4 Gb) for use in explosive atmospheres up to +65 °C depending on the class. It also has IECEx certification and can be delivered with optional SIL2 certification for critical applications. Compatible with HART protocol, ensuring seamless integration with industrial supervision systems.

Available Accessories

The KwikSense Pro can be equipped with a weather hood, a collection cone for light gases, a wall or pipe mounting bracket, a duct mounting kit, and a continuous flow adapter for gas sampling. These accessories adapt the transmitter for a wide range of environments, including outdoor areas, ventilation ducts, fixed installations, and sampling systems

Additional Information

The KwikSense Pro operates by diffusion, with two user-configurable alarm thresholds. It accepts an operating pressure of ±10% of ambient pressure and relative humidity up to 95%, provided there is no prolonged condensation. It is designed to withstand extreme temperatures, with an operating range from -40 to +65 °C depending on the sensor used. Certain sensors, such as for methanol or ETO, may require 1 to 24 hours to stabilize after reboot. The system is based on microcontroller electronics with

Phone +33 (0)1 64 09 35 16 • Fax +33 (0)1 60 66 15 87
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Gas Name	Range	Resolution	Sensor Type	Code
Acetic Acid	0-30 ppm	0.1 ppm	EC	074A
Acetylene	0-100% LEL	1% LEL	Pellistor	099C
Ammonia	0-100 ppm	1 ppm	EC	082A
Ammonia	0-1000 ppm	1 ppm	EC	082B
Butadiene	0-50 ppm	1 ppm	PID	099V
Butadiene	0-100% LEL	1% LEL	NDIR	0995
Bromine	0-20 ppm	0.1 ppm	EC	061A
Butanol	0-100% LEL	1% LEL	Pellistor	099D
Carbon Dioxide	0-5% v/v	0.01% v/v	NDIR	025A
Carbon Dioxide	0-100% v/v	1% v/v	NDIR	025B
Carbon Disulfide	0-50 ppm	1 ppm	PID	021A
Carbon Disulfide	0-100 ppm	1 ppm	EC	021B
Carbon Monoxide	0-100 ppm	1 ppm	EC	020D
Carbon Monoxide	0-200 ppm	1 ppm	EC	020E
Carbon Monoxide	0-300 ppm	1 ppm	EC	020F
Carbon Monoxide	0-500 ppm	1 ppm	EC	020B
Carbon Monoxide	0-1000 ppm	1 ppm	EC	020A
Carbon Monoxide	0-2000 ppm	1 ppm	EC	020C
Chlorine	0-10 ppm	0.1 ppm	EC	060B
Chlorine	0-20 ppm	0.1 ppm	EC	060A
Chlorine Dioxide	0-1 ppm	0.1 ppm	EC	062A
Ethylene	0-1500 ppm	5 ppm	EC	097A
ETO	0-20 ppm	0.1 ppm	EC	083A
ETO	0-100 ppm	1 ppm	EC	083B
Formaldehyde	0-10 ppm	0.1 ppm	EC	098A
Hydrocarbon (Methane)	0-100% LEL	1% LEL	Pellistor	099A
Hydrocarbon (Methane)	500-10000 ppm	10 ppm	SS	099G
Hydrocarbon (MPS)	0-100% LEL	1% LEL	MPS	Ask
Hydrocarbon	50-1000 ppm	1 ppm	SS	099H
Hydrogen (IIC)	0-1000 ppm	1 ppm	EC	090A
Hydrogen (IIC)	0-100% LEL	1% LEL	EC	090B
Hydrogen (IIC)	0-100% LEL	1% LEL	Pellistor	090C
Hydrogen Chloride	0-20 ppm	0.1 ppm	EC	070A
Hydrogen Cyanide	0-30 ppm	0.1 ppm	EC	075B
Hydrogen Cyanide	0-100 ppm	1 ppm	EC	075A
Hydrogen Fluoride	0-10 ppm	0.1 ppm	EC	072A
Hydrogen Sulphide	0-100 ppm	1 ppm	EC	030A
Hydrogen Sulphide	0-20 ppm	1 ppm	EC	030B
Iso-Butane	0-100% LEL	1% LEL	Pellistor	0990
LPG	0-100% LEL	1% LEL	Pellistor	099B
LPG	0-100% LEL	1% LEL	NDIR	099T
MEK	0-100% LEL	1% LEL	NDIR	099P
Methane	0-100% LEL	1% LEL	NDIR	099E
Methane	0-100% v/v	1% v/v	NDIR	099F
Methanol	0-100 ppm	1 ppm	EC	099K
Methanol	0-500 ppm	1 ppm	EC	099M
Methanol	0-100 ppm	1 ppm	EC	Ask
Mercaptan	0-20 ppm	0.1 ppm	EC	035A
Methyl Bromide	0-200 ppm	1 ppm	SS	051A

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Gas Name	Range	Resolution	Sensor Type	Code
Mono Methyl Amine	0-100 ppm	1 ppm	EC	087A
N-Butane	0-100% LEL	1% LEL	Pellistor	099N
Nitrogen Dioxide	0-20 ppm	0.1 ppm	EC	081A
Oxygen	0-25% v/v	0.1% v/v	EC	010A
Ozone	0-1 ppm	0.01 ppm	EC	015A
Phosphorus Trichloride	0-10 ppm	1 ppm	EC	071A
Phosgene	0-1 ppm	0.01 ppm	EC	055A
Phosphine	0-10 ppm	0.01 ppm	EC	050A
Phosphine	0-20 ppm	0.1 ppm	EC	050B
Phosphine	0-20 ppm	0.01 ppm	EC	050C
Phosphine	0-5000 ppm	10 ppm	EC	050D
Phosphine	0-2000 ppm	1 ppm	EC	050E
Phosphorus Oxychloride	0-20 ppm	1 ppm	EC	073A
Propane	0-100% LEL	1% LEL	NDIR	0991
Propane	0-100% LEL	1% LEL	Pellistor	099J
Propylene	0-2% v/v	0.01% v/v	NDIR	099L
Silane	0-15 ppm	1 ppm	EC	053A
Sulphur Dioxide	0-20 ppm	0.1 ppm	EC	040A
Vinyl Chloride	0-100 ppm	1 ppm	EC	022A
VOC (Benzene)	0-20 ppm	0.1 ppm	PID	100C
VOC (Benzene)	0-1000 ppm	1 ppm	PID	100F
VOC (Isobutylene)	0-40 ppm	0.1 ppm	PID	100B
VOC (Isobutylene)	0-100 ppm	1 ppm	PID	100E
VOC (Isobutylene)	0-1000 ppm	1 ppm	PID	100A
VOC (Isobutylene)	0-4000 ppm	1 ppm	PID	100D
VOC (VCM)	0-100 ppm	1 ppm	PID	100G

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