

► Ventis™ Pro

ATEX- 5 Sensors Personal Gas Monitor



Technical specifications

Detect up to five gas simultaneously: Combustible gases (hydrocarbons, solvents, alcohols), Cl₂, CO, CO₂, H₂S, HCN, NO₂, NH₃, O₂, PH₃, SO₂ & VOC (volatil organic compounds)

Case Material: Polycarbonate with protective rubber overmold

Display: Backlit liquid crystal display (LCD)

Keypad: Two buttons for operation. Dedicated « panic » button

Alarms: 360° ultra-bright LED Visual alarm (two red, two blue), Audible alarm (95 dB at distance of 10 cm) and vibrating alarm

Dimensions:

- 104 x 58 x 36 mm without pump
- 172 x 67 x 65 mm with Pump

Weight : 200 g (390 g with pump)

Ingress protection: IP 68

Certifications:

- UL
- Class I, zone 0, AEx ia IIC, in temperature class T4
- Class I, zone 1, AEx d ia IIC T4 with IR sensor
- ATEX
- Equipment group and category II 1G, Ex ia IIC, with protection category Ga, in temperature class T4
- II 2G, Ex d ia IIC T4 with IR sensor
- IECEx
- Class I, zone 0, Ex ia IIC, with protection category Ga, in temperature class T4
- Class I, zone 1, Ex d ia IIC T4, with IR sensor

Communication (LENS™ Wireless Mesh Network)

- Frequency: ISM license-free band (2,405 à 2,480 GHz)
- Max Peers: 25 devices per network group
- Range: 100 m line of sight (face-to-face)
- Certifications: FCC Part 15, IC, CE/RED, others

Product description

The **Ventis™ Pro** personal gas monitor detects up to five gases simultaneously among which : Combustible gases (hydrocarbons, solvents, alcohols), Cl₂, CO, CO₂, H₂S, HCN, NO₂, NH₃, O₂, PH₃ and SO₂.

In addition to its gas detection functions, it includes a “man down” distress alarm, an imminent danger alert button and personalized messages appear on the screen to facilitate communication and technicians' work.

► Function (Isolated Worker Protection) as standard

The **Ventis™ Pro** is equipped with numerous functions dedicated to more safety such as the PASS (Personal Alert Safety System) and a “Panic” button to quickly alert teams in case of emergency.

For better alarms and dangers interpretation, programmable, clear action messages like “VENTILATE” or “EVACUATE” are displayed at start-up or in the event of a pre-alarm.

► LENS™ Wireless communication

The LENS™ Wireless technology available on **Ventis™ Pro** detectors and **Radius BZ1** area gas monitors, constitute a new approach to global security for people in hostile environments.

Now, these devices can communicate with each other remotely and especially wirelessly. When an alert is triggered, all individuals with connected equipment are warned in real time for faster and safer intervention in case of significant risks.

► Clip-on gas sampling pump

The **VSP** clip-on is ideal for operators who primarily use a gas detector for personal protection and who require a gas sampling pump before entering a confined space. No tools are required to connect or remove the pump from the Ventis™ Pro detector.

► Dual Sense technology

The **Ventis™ Pro** incorporates the DualSense® technology, which uses two identical sensors to detect the same gas. This reduces the sensor failure risk while providing users with the best protection, regardless of trigger tests frequency thus making it one of the safest detectors on the market.

► The iAssign® technology

With the iAssign® technology available on the **Ventis™ Pro**, it's very easy to identify a user and a specific access area. This system uses the principle of a programmed badge including various information such as the user's identity, a geographic sector, etc. and associates the detector to this information.

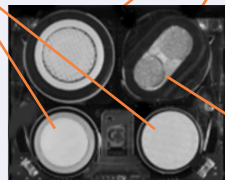
Configuration of sensors

Gas	Range	Resolution	Serie 4	Serie 6
Catalytic Sensors				
Methane (% vol.)	0-5 %/vol,	0,01 %/vol.	17155304-M	
Methane (% LEL)	0-100 % LEL	1 % LEL	17155304-L	
Pentane (% LEL)	0-100 % LEL	1 % LEL	17155304-K	
Electrochemical Sensors				
Ammonia	0-500 ppm NH3	1 ppm		17155306-6
Carbon monoxide	0-2000 ppm CO	1 ppm		17155606-1
Carbon monoxide (compensated H2)	0-1000 ppm CO	1 ppm		17155306-G
Carbon monoxide / Hydrogen sulfide (combined sensors)	0-1500 ppm CO 0-500 ppm H2S	1 ppm 0,1 ppm	17155304-J	17155306-J
Chlorine	0-50 ppm Cl2	0,1 ppm		17155306-7
Hydrogen cyanide	0-30 ppm HCN	0,1 ppm		17155306-B
Hydrogen sulfide	0-500 ppm H2S	0,1 ppm	17155304-2	17155306-2
Nitrogen dioxide	0-150 ppm NO2	0,1 ppm		17155306-4
Oxygen (shelf-life: 2 years)	0-30 %/vol, O2	0,1 %/vol.	17155304-3	
Oxygen (long shelf-life: 5 years)	0-30 %/vol, O2	0,1 %/vol.	17155304-Y	17155306-Y
Phosphine	0-10 ppm PH3	0,01 ppm		17155306-9
Sulfure dioxide	0-150 ppm SO2	0,1 ppm		17155306-5
IR Sensor (infrared)				
Carbon dioxide	0-5% vol	0,01 %/vol.	17155304-Q	
Carbon dioxide / Hydrocarbon (Combined sensors)	0-5% vol / 0-100 % LEL	0,01 %/vol. / 1 %/vol.	17155304-U	
Carbon dioxide / Methane (Combined sensors)	0-5% vol / 0-100 % LEL	0,01 %/vol. / 1 %/vol.	17155304-V	
Hydrocarbons (ultra low power)	0-100 % LIE	1 % LIE	17155304-T	
Hydrocarbons (Propane)	0-100 % LEL	1 %/vol.	17155304-P	
Methane (%/vol.)	0-5% vol / 0-100 %/vol.	0,01 %/vol. / 0,1 %/vol.	17155304-N	
Methane (ultra low power)	5.1 - 100 % LIE	0.1 % LIE	17155304-S	
PID cells				
Volatil Organic Compounds (VOCs)	0-2000 ppm	1 % LIE	17155304-R	

► Cells position

Position 3 or 4

- Ammonia (NH3) : 17155306-6
- Carbon monoxide (CO) : 17155306-1^a
- Carbon monoxide / Hydrogen sulfide (CO/H2S) : 17155306-J^a
- Carbon monoxide with low hydrogen cross-sensitivity (CO/H2 low) : 17155306-G
- Chlorine (Cl2) : 17155306-7^c
- Hydrogen cyanide (HCN) : 17155306-B
- Hydrogen sulfide (H2S) : 17155306-2^a
- Nitrogen dioxide (NO2) : 17155306-4
- Oxygen, long shelf-life (O2) : 17155306-Y^b
- Phosphine (PH3) : 17155306-9
- Sulphur dioxide (SO2) : 17155306-5^a



Position 1 or 2

- Carbon dioxide (CO2) : 17155304-Q
- Carbon monoxide / Hydrogen sulfide (CO/H2S) : 17155304-J
- Hydrocarbons IR (propane) : 17155304-T
- Hydrogen sulfide (H2S) : 17155304-2
- Methane, IR (CH4)
- Oxygen (O2) : 17155304-3^a
- Oxygen, long shelf-life (O2) : 17155304-Y^{a et b}

Position 2 only

- Carbon dioxide / LIE (propane), IR (CO2/LIE) : 17155304-U
- Carbon dioxide / Methane (CO2/CH4) : 17155304-V
- Hydrocarbons IR (propane) : 17155304-P
- LIE (pentane) : 17155304-K
- LIE (methane) : 17155304-L
- Methane, 0 to 5 % vol : 17155304-M
- Methane IR, (CH4) : 17155304-N
- Volatil Organic Compound (COV) : 17155304-R^c

a : DualSense compatible

b : polarized cell

c : Do not use the Ventis Slide-on Pump to sample the following gases: chlorine, chlorine dioxide, hydrogen chloride and VOCs, or when a cell for one of these gases is installed and the target gas is unknown. Use only the Ventis Pro pump module. Using the VSP with these gases will result in inaccurate gas measurements due to their susceptibility to absorption

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