INDUSTRIAL SCIENTIFIC

VENTIS® PRO SERIES
Product Guide

BE READY FOR THE MOMENT

In your line of work, a day on the job can turn from habit to hazard in a single moment. Be ready for anything with the Ventis® Pro Series Multi-Gas Monitors.

With features that keep users safer than ever, the Ventis® Pro4 and Ventis® Pro5 make owning and using gas detectors easy—all in the most configurable multi-gas monitors on the market.

Demand More Flexibility From Your Gas Detector

Stop carrying multiple devices to meet your gas detection needs. The Ventis Pro4 and Ventis Pro5 offer a variety of sensor options with flexible slot positions to help you detect combustible and toxic gases across a range of applications.

- Monitor up to five gases with flexible sensor configuration options
- See real-time alarms and gas readings from other Ventis Pro personal monitors and Radius® BZ1 Area Monitors using LENS™ Wireless
- Operate the device for personal protection or with a pump for confined space applications
- Save money by using existing compatible Ventis® MX4 accessories

Alert Others in Emergency Situations

Save precious time in emergency situations by quickly alerting nearby workers when someone is in distress or has lost consciousness.
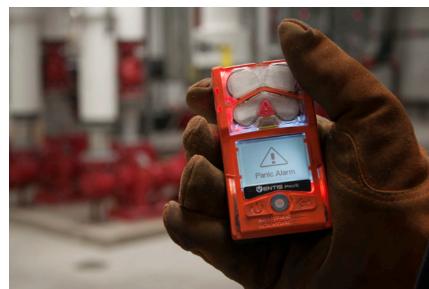
- Press the dedicated panic button to notify others when an emergency arises
- Set the man-down alarm to activate after a defined period of time without motion
- View man-down and panic alarms from peers in your LENS Wireless group

Depend on a Rugged Design

Keep your instruments in the field, not the shop, thanks to an all-new overmold design and Guaranteed for Life™ warranty.

- Industry's only Guaranteed for Life warranty*
- Industry's highest rating of IP68 for protection against damage from dust and water
- Withstands submersion in 1.5 meters of water for one hour
- Replaceable dust filter cover allows you to change dirty filters without having to take apart the instrument
- Raised plastic rail on the faceplate helps to protect sensors when instrument is face down
- High contact areas of the instrument are reinforced to prevent wear from friction

*See specifications chart for full warranty details.

Track Instruments & Alarms

Address recurring alarms, identify hazards, and improve asset management by assigning users and sites to each gas monitor in real time with iAssign® Technology.

- Quickly make sense of your data by knowing who had an instrument and where it was during an alarm
- Manage assets more efficiently by viewing iAssign data to see who last used an instrument before it went missing
- Keep instruments running optimally with maintenance reminders that prompt you to take actions such as docking or bump testing
- Save time and frustration by using the quick status screen to view battery level, serial number, and installed sensors without powering on the instrument

Simplify Gas Detection for Your Users

Communicate key safety information to your team, simplify the user's response when an instrument goes into alarm, and reduce nuisance alarms and false evacuations thanks to customizable text options.

- Focus on taking action in emergency situations with custom alarm action messages like "EVACUATE" or "VENTILATE"
- See gas readings and alarms from connected peers using LENS Wireless
- Reinforce a safety culture by communicating safety information or company-wide reminders with custom start-up messages
- See only the information needed in the field thanks to a flexible interface that lets you limit screens and options when in use
- Focus on the source and type of hazard in emergencies by viewing full-screen alarms

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What Gases Will You Need to Monitor?

DETECTION CAPABILITIES	VENTIS Pro4	VENTIS Pro5
Simultaneous Gases	Four	Five
LEL/CH$_4$	✓	✓
CO	✓	✓
H$_2$S	✓	✓
SO$_2$	✓	✓
NO$_2$	✓	✓
CO/H$_2$ Low	✓	✓
O$_2$ (Standard)	✓	✓
O$_2$ (Long-Life)	✓	✓
CO$_2$	✓	✓
HCN	✓	✓
PH$_3$		✓
NH$_3$		✓
CO/H$_2$S		✓
CH$_4$ IR		✓
CO$_2$/LEL IR		✓
CO$_2$/CH$_4$ IR		✓

SPECIFICATIONS*

WARRANTY
Guaranteed for Life™. Warranted for as long as the instrument is supported by Industrial Scientific Corporation (excludes sensors, batteries, and filters). O_2, LEL, CO, and H_2S sensors warranted for three years. All other sensors warranted for two years. Pumps and batteries are warranted for two years.

KEYPAD
Two buttons for operation. Dedicated panic button.

DATA LOG:
At least 3 months at 10-second intervals

EVENT LOGGING
60 alarm events

INGRESS PROTECTION
IP68 (submersion at 1.5 meters for 1 hour)

CASE MATERIAL
Polycarbonate with protective rubber overmold

DIMENSIONS
104 x 58 x 36 mm (4.1 x 2.3 x 1.4 in) without pump
172 x 67 x 65 mm (6.8 x 2.6 x 2.6 in) with pump

WEIGHT
200 g (7.05 oz), typical without pump | 390 g (13.76 oz), typical with pump

TEMPERATURE RANGE
-40 °C to 50 °C (-40 °F to 122 °F) **

HUMIDITY RANGE
15% to 95% non-condensing (continuous)

DISPLAY/READOUT
Backlit liquid crystal display (LCD)

POWER SOURCE/RUN TIME:
Rechargeable slim extended lithium-ion battery (18 hours typical @ 20 ºC) without Pump
Rechargeable lithium-ion battery with LEL (12 hours typical @ 20 ºC) without Pump
Rechargeable extended-range lithium-ion battery with LEL
  (23 hours typical @ 20 ºC) without Pump; (18 hours typical @ 20 ºC) with Pump
Rechargeable lithium-ion battery with IR
  (36 hours typical @ 20 ºC) without Pump
Rechargeable extended-range lithium-ion battery with IR
  (72 hours typical @ 20 ºC) without pump; (32 hours typical @ 20 ºC) with Pump

ALARMS
Four visual alarm LEDs (two red, two blue);
95 decibel (dB) audible alarm at a distance of 10 cm (3.94 in); Vibration alarm

SENSORS
Combustible Gases/Methane – Catalytic Bead
O_2, CO, CO/H_2 low, H_2S, HCN, NH_3, NO_2, PH_3, SO_2 – Electrochemical
CO_2, CH_4, CO_2/LEL, CO_2/CH_4 – Infrared

SUPPLIED WITH MONITOR
Calibration Cup (without Pump), Sample Tubing (with Pump), Reference Guide

LANGUAGE
English, French, Spanish, German, Italian, Dutch, Portuguese, Polish

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MEASURING RANGES
CATALYTIC BEAD

Combustible Gases:	0-100% LEL in 1% increments
Methane (CH_4):	0-5% of vol in 0.01% increments

ELECTROCHEMICAL

Ammonia (NH_3):	0-500 ppm in 1 ppm increments
Carbon Monoxide (CO):	0-2,000 ppm in 1 ppm increments
Carbon Monoxide (CO/H_2 low):	0-1,000 ppm in 1 ppm increments
Carbon Monoxide/Hydrogen Sulfide:	CO: 0-1,500 ppm in 1 ppm increments
	H_2S: 0-500 ppm in 0.1 ppm increments
Hydrogen Sulfide (H_2S):	0-500 ppm in 0.1 ppm increments
Hydrogen Cyanide (HCN):	0-30 ppm in 0.1 ppm increments
Nitrogen Dioxide (NO_2):	0-150 ppm in 0.1 ppm increments
Oxygen (O_2) (Standard/Long-Life):	0-30% of vol in 0.1% increments
Phosphine (PH_3):	0-10 ppm in 0.01 ppm increments
Sulfur Dioxide (SO_2):	0-150 ppm in 0.1 ppm increments

INFRARED

Carbon Dioxide (CO_2):	0-5% vol in 0.01% increments
Methane (CH_4):	0-5% vol in 0.01% increments
	5-100% vol in 0.1% increments
Carbon Dioxide/Combustible:	CO_2: 0-5% vol in 0.01% increments
	LEL: 0-100% LEL in 1% increments
Carbon Dioxide/Methane:	CO_2: 0-5% vol in 0.01% increments
	CH_4: 0-5% vol in 0.01% increments
	CH_4: 5-100% vol in 0.1% increments

WIRELESS
Optional LENS™ Wireless, proprietary mesh network
Frequency: ISM license-free band (2.405 - 2.480 GHz)
Max Peers: 25 devices per network group | Range: 100 m (300 ft) line of sight, face-to-face
Encryption: AES-128 | Approvals: FCC Part 15, IC, CE/RED, others†

CERTIFICATIONS
INGRESS PROTECTION IP68

ANZEx:	Ex ia I Ma/Ex ia IIC T4 Ga, -40 °C ≤ Ta ≤ 50 °C
	Ex d ia I Mb/Ex d ia IIC T4 Gb IR sensor, -20 °C ≤ Ta ≤ 50 °C IR sensor
ATEX:	Equipment Group and Category II 1G, Ex ia IIC, Ga, T4
	Equipment Group and Category II 2G, Ex d ia IIC, Gb, T4, IR sensor
China CPC:	CPA 2017-C103
China Ex:	Ex ia IIC T4 Ga, -40 °C ≤ Ta ≤ 50 °C; Ex d ia IIC T4 Gb IR sensor,
	-20 °C ≤ Ta ≤ 50 °C IR sensor
CSA:	Cl I, Div 1, Gr A-D, T4; Cl I, Zone 1, Ex d ia IIC, T4	C22.2
	No. 152 for % LEL reading only
IECEx:	Cl I, Zone 0, Ex ia IIC, Ga, T4; Cl I, Zone 1, Ex d ia IIC, Gb, T4, IR sensor
INMETRO:	Ex ia IIC T4 Ga, -40 °C ≤ Ta ≤ 50 °C
	Ex d ia IIC T4 Gb IR sensor, -20 °C ≤ Ta ≤ 50 °C IR sensor
KC:	Ex d ia IIC T4
MSHA:	30 CFR Part 22; Permissible for underground mines
PA-DEP:	BFE 46-12 Permissible for PA Bituminous underground mines
UL:	Cl I, Div 1, Gr A-D, T4; Cl II, Div 1, Gr E-G, T4
	Cl I, Zone 0, AEx ia IIC, T4; Cl I, Zone 1, AEx d ia II C, T4, IR sensor

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* These specifications are based on performance averages and may vary by instrument.

** Operating temperatures above 50 °C (122 °F) may cause reduced instrument accuracy. Operating temperatures below -20 °C (-4 °F) may cause reduced instrument accuracy and affect display and alarm performance. See Product Manual for details.

† See www.indsci.com/wireless-certifications for country-specific wireless approvals and certifications.

Raise the Bar on Worker Safety
with the Ventis Pro Series

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