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## Product Ordering Guide

Stop carrying multiple instruments to meet your gas detection needs. The Ventis™ Pro Series with LENS™ Wireless has you covered whether you need unique four-gas or expanded five-gas sensor options—all in the most configurable multi-gas monitors on the market.

## What Gases Will You Need to Monitor?

DETECTION CAPABILITIES	VENTIS™ PRO4	VENTIS™ PRO5
Simultaneous Gases	Four	Five
O <sub>2</sub>	✓	✓
LEL/CH <sub>4</sub>	✓	✓
CO	✓	✓
H <sub>2</sub> S	✓	✓
SO <sub>2</sub>	✓	✓
NO <sub>2</sub>	✓	✓
CO/H <sub>2</sub> Low	✓	✓
HCN	✓	✓
PH <sub>3</sub>		✓
NH <sub>3</sub>		✓
CO/H <sub>2</sub> S		✓
CH <sub>4</sub> IR		✓
CO <sub>2</sub> /LEL IR		✓
CO <sub>2</sub> /CH <sub>4</sub> IR		✓

\*See specifications chart for full warranty details.

- Flexible sensor configurations detect up to five gases
- See gas readings and alarms from connected peers using LENS Wireless
- With integral pump for confined spaces or without integral pump for personal protection
- Custom start-up messages, alarm action messages, and acknowledgeable gas alerts
- Man-down alarm and dedicated panic button
- User and site tracking with iAssign™ Technology
- Rugged IP68 dust and water rating and Guaranteed for Life™ warranty\*
- Compatible with most Ventis™ MX4 accessories
- Dock overdue and maintenance reminders
- iNet® and docking station ready

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## How Will You Maintain Your Ventis Pro4?



SELECT A MONITOR	MONITOR PART #	DOCKING STATION	CALIBRATION GAS 116L	DEMAND FLOW REGULATOR
Ventis Pro4 – LEL (Pent), CO, H <sub>2</sub> S, O <sub>2</sub> , Li-ion, Desktop Charger, Safety Orange	VP4-K12Y1101yww	18109327-131	18109157	18105841
Ventis Pro4 with Pump – LEL (Pent), CO, H <sub>2</sub> S, O <sub>2</sub> , Extended Li-ion, Desktop Charger, Black	VP4-K12Y2110yww	18109327-131	18109157	18105841
Ventis Pro4 – LEL (Pent), SO <sub>2</sub> , H <sub>2</sub> S, O <sub>2</sub> , Li-ion, Desktop Charger, Safety Orange	VP4-K52Y1101yww	18109327-131	18109234	18105841
Ventis Pro4 – LEL (Pent), CO, NO <sub>2</sub> , O <sub>2</sub> , Li-ion, Desktop Charger, Safety Orange	VP4-K14Y1101yww	18109327-131	18109236	18105841
Ventis Pro4 – LEL (Pent), CO, HCN, O <sub>2</sub> , Li-ion, Desktop Charger, Safety Orange	VP4-K1BY1101yww	18109327-131	18109157, 18109085	18105841 x2
Ventis Pro4 with Pump – LEL (Pent), CO, HCN, O <sub>2</sub> , Extended Li-ion, Desktop Charger, Safety Orange	VP4-K1BY2111yww	18109327-131	18109157, 18109085	18105841 x2

y = Agency Certification: 1 = UL/CSA, 2 = ATEX/IECEx, 3 = MSHA, 9 = INMETRO | w = Wireless: 0 = Non-wireless, 1 = Wireless  
 z = Language for included Reference Guide: 1 = EN, 2 = FR, 3 = ES, 4 = DE, 5 = IT, 6 = DU, 7 = PT, A = PL

## How Will You Maintain Your Ventis Pro5?



SELECT A MONITOR	MONITOR PART #	DOCKING STATION	CALIBRATION GAS 116L	DEMAND FLOW REGULATOR
Ventis Pro5 with Pump – LEL (Pent), CO/H <sub>2</sub> S, SO <sub>2</sub> , O <sub>2</sub> , Extended Li-ion, Desktop Charger, Safety Orange	VP5-KJ5Y2111yww	18109327-131	18109234	18105841
Ventis Pro5 – LEL (Pent), CO/H <sub>2</sub> S, NO <sub>2</sub> , O <sub>2</sub> , Li-ion, Desktop Charger, Safety Orange	VP5-KJ4Y1101yww	18109327-131	18109157, 18109084	18105841 x2
Ventis Pro5 with Pump – LEL (Pent), CO/H <sub>2</sub> S, NH <sub>3</sub> , O <sub>2</sub> , Extended Li-ion, Desktop Charger, Black	VP5-KJ6Y2110yww	18109327-131	18109157, 18109081	18105841 x2
Ventis Pro5 with Pump – CO <sub>2</sub> /LEL IR, CO, H <sub>2</sub> S, O <sub>2</sub> , Extended Li-ion, Desktop Charger, Black	VP5-U12Y2110yww	18109327-131	18109188, 18102913 (103L), 18101584 (103L)	18105841 x3

y = Agency Certification: 1 = UL/CSA, 2 = ATEX/IECEx, 3 = MSHA, 9 = INMETRO | w = Wireless: 0 = Non-wireless, 1 = Wireless  
 z = Language for included Reference Guide: 1 = EN, 2 = FR, 3 = ES, 4 = DE, 5 = IT, 6 = DU, 7 = PT, A = PL

Charts show most common configurations. To build your custom order, visit our online instrument builder or contact your local distributor.







## Will You Use the Ventis Pro to Monitor Confined Spaces?

### CONFINED SPACE KITS WITH INTEGRAL PUMP

PART NO.	DESCRIPTION
V4K-K12Y211xywz	Ventis Pro4 Confined Space Kit – LEL (Pent), CO, H <sub>2</sub> S, O <sub>2</sub>
V4K-KG2Y211xywz	Ventis Pro4 Confined Space Kit – LEL (Pent), CO/H <sub>2</sub> low, H <sub>2</sub> S, O <sub>2</sub>
V4K-K10Y211xywz	Ventis Pro4 Confined Space Kit – LEL (Pent), CO, O <sub>2</sub>
V4K-K00Y211xywz	Ventis Pro4 Confined Space Kit – LEL (Pent), O <sub>2</sub>
V4K-K02Y211xywz	Ventis Pro4 Confined Space Kit – LEL (Pent), H <sub>2</sub> S, O <sub>2</sub>
V4K-K1BY211xywz	Ventis Pro4 Confined Space Kit – LEL (Pent), CO, HCN, O <sub>2</sub>
V5K-KJ5Y211xywz	Ventis Pro5 Confined Space Kit – LEL (Pent), CO/H <sub>2</sub> S, SO <sub>2</sub> , O <sub>2</sub>
V5K-KJ4Y211xywz	Ventis Pro5 Confined Space Kit – LEL (Pent), CO/H <sub>2</sub> S, NO <sub>2</sub> , O <sub>2</sub>
V5K-KJ6Y211xywz	Ventis Pro5 Confined Space Kit – LEL (Pent), CO/H <sub>2</sub> S, NH <sub>3</sub> , O <sub>2</sub>



**Ventis Pro Series Confined Space Kits Include:** Ventis Pro Series instrument with integral pump, desktop charger, reference guide, calibration tubing with T-fitting, dust filter/water stop, sample tubing, calibration gas (appropriate mix) with manual regulator, and rugged hard plastic case.

x = Instrument Color: 0 = Black, 1 = Safety Orange  
 y = Agency Certification: 1 = UL/CSA, 2 = ATEX/IECEX, 3 = MSHA, 9 = INMETRO  
 w = Wireless: 0 = Non-wireless, 1 = Wireless  
 z = Documentation Language: 1 = EN, 2 = FR, 3 = ES, 4 = DE, 5 = IT, 6 = DU, 7 = PT, A = PL



## How Can Wireless Improve Worker Safety?

LENS™ Wireless is the first gas detection solution that allows personal monitors and area monitors to share gas readings and alarms with one another. Now when a gas hazard, man-down, or panic situation causes an instrument to alarm, all peers in the connected group will instantly be notified of the hazard and the person in danger. When seconds matter, you can rely on help from workers nearby, rather than a control room or call center hundreds of miles away.

- Share gas readings and alarms between Ventis™ Pro Series personal monitors and Radius™ BZ1 Area Monitors
- Enjoy out-of-the-box operation with no site surveys, IT setup, licenses, or additional infrastructure needed
- Identify peer alarm types in real time, enabling a faster, more appropriate response
- View gas readings from other peers in your group on any monitor without needing a central controller to relay the information
- Receive readings from up to 1.5 km (~1 mi) away with wireless hopping between instruments

FOR A LIST OF ALL ACCESSORIES, VISIT: [www.indsci.com/ventispro](http://www.indsci.com/ventispro)

## SPECIFICATIONS\*

### WARRANTY

Guaranteed for Life™. Warranted for as long as the instrument is supported by Industrial Scientific Corporation (excludes sensors, batteries, and filters). O<sub>2</sub>, LEL, CO, and H<sub>2</sub>S 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%-95% non-condensing (continuous)

### WIRELESS

Optional LENS™ Wireless, proprietary mesh network

Frequency: ISM license-free band (2.4 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†

### DISPLAY/READOUT

Backlit liquid crystal display (LCD)

### POWER SOURCE/RUN TIME

Rechargeable lithium-ion battery pack with LEL  
(12 hours typical @ 20 °C) – without pump

Rechargeable extended-range lithium-ion battery pack with LEL  
(23 hours typical @ 20 °C) – without pump  
(18 hours typical @ 20 °C) – with pump

Rechargeable lithium-ion battery pack with IR  
(36 hours typical @ 20 °C) – without pump

Rechargeable extended-range lithium-ion battery pack with IR  
(72 hours typical @ 20 °C) – without pump  
(32 hours typical @ 20 °C) – 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<sub>2</sub>, CO, CO/H<sub>2</sub> low, H<sub>2</sub>S, HCN, NH<sub>3</sub>, NO<sub>2</sub>, PH<sub>3</sub>, SO<sub>2</sub> – Electrochemical

CH<sub>4</sub>, CO<sub>2</sub>/LEL, CO<sub>2</sub>/CH<sub>4</sub> – Infrared

## MEASURING RANGES

### CATALYTIC BEAD

Combustible Gases: 0-100% LEL in 1% increments  
Methane (CH<sub>4</sub>): 0-5% of vol in 0.01% increments

### ELECTROCHEMICAL

Ammonia (NH<sub>3</sub>): 0-500 ppm in 1 ppm increments  
Carbon Monoxide (CO): 0-2,000 ppm in 1 ppm increments  
Carbon Monoxide (CO/H<sub>2</sub> low): 0-1,000 ppm in 1 ppm increments  
Carbon Monoxide/Hydrogen Sulfide: CO: 0-1,500 ppm in 1 ppm increments  
H<sub>2</sub>S: 0-500 ppm in 0.1 ppm increments  
Hydrogen Sulfide (H<sub>2</sub>S): 0-500 ppm in 0.1 ppm increments  
Hydrogen Cyanide (HCN): 0-30 ppm in 0.1 ppm increments  
Nitrogen Dioxide (NO<sub>2</sub>): 0-150 ppm in 0.1 ppm increments  
Oxygen (O<sub>2</sub>) (Standard/Long-Life): 0-30% of vol in 0.1% increments  
Phosphine (PH<sub>3</sub>): 0-10 ppm in 0.01 ppm increments  
Sulfur Dioxide (SO<sub>2</sub>): 0-150 ppm in 0.1 ppm increments

### INFRARED

Methane (CH<sub>4</sub>): 0-5% vol in 0.01% increments  
5-100% vol in 0.1% increments  
Carbon Dioxide/Combustible: CO<sub>2</sub>: 0-5% vol in 0.01% increments  
LEL: 0-100% LEL in 1% increments  
Carbon Dioxide/Methane: CO<sub>2</sub>: 0-5% vol in 0.01% increments  
CH<sub>4</sub>: 0-5% vol in 0.01% increments  
CH<sub>4</sub>: 5-100% vol in 0.1% increments

## CERTIFICATIONS

UL: Class I, Division 1, Groups A, B, C, and D, in the Temperature Class T4  
Class II, Division 1, Groups E, F, and G, in the Temperature Class T4  
Class I, Zone 0, AEx ia IIC, in the Temperature Class T4  
Class I, Zone 1, AEx d ia IIC, in the Temperature Class T4, with IR sensor

ATEX: Equipment Group and Category II 1G, Ex ia IIC, with the protection  
Category Ga, in the Temperature Class T4  
Equipment Group and Category II 2G, Ex d ia IIC, with the protection category  
Gb, in the Temperature Class T4, with IR sensor

IECEX: Class I, Zone 0, Ex ia IIC, with the protection technique Ga, in the  
Temperature Class T4  
Class I, Zone 1, Ex d ia IIC, with the protection technique Gb, in the  
Temperature Class T4, with IR sensor

CSA: Class I, Division 1, Groups A, B, C, and D, in the Temperature Class T4  
Class I, Zone 1, Ex d ia IIC, in the Temperature Class T4

MSHA: 30 CFR Part 22; Permissible for underground mines

INMETRO: Ex ia IIC T4 Ga, -40 °C ≤ Ta ≤ 50 °C  
Ex d ia IIC T4 Gb with IR sensor, -20 °C ≤ Ta ≤ 50 °C with IR sensor

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 with IR sensor, -20 °C ≤ Ta ≤ 50 °C with IR sensor

See [www.indsci.com/ventispro](http://www.indsci.com/ventispro) for all certifications.

## SUPPLIED WITH MONITOR

Calibration Cup (Ventis), Sample Tubing (Ventis with pump), Reference Guide

## LANGUAGE

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

\* 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](http://www.indsci.com/wireless-certifications) for country-specific wireless approvals and  
certifications.

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