



# PUMP UP YOUR GAS DETECTION PROGRAM

## **VENTIS™ MX4**

**Configured for your safety, the Ventis™ MX4 multi-gas detector takes your gas detection program to the next level.**

- Detect from one to four gases with a wide range of sensor options
- Draw samples from up to 100 feet with an optional, integrated sampling pump
- Gain increased instrument visibility with a safety orange overmold
- Realize true portability with multi-gas protection in single-gas size
- Use the extended range battery for up to 20 hours (without pump)
- Discover a better way to do gas detection with the Ventis on iNet®



**Build your Ventis today at  
[www.indsci.com/ventisbuilder](http://www.indsci.com/ventisbuilder)**

**INDUSTRIAL  
SCIENTIFIC**

[www.indsci.com](http://www.indsci.com)

# IMAGINE YOUR PEACE OF MIND... IMAGINE iNET

No matter the industry, workplaces are becoming more complex. Demands for increased productivity and efficiency persist to become the focal point of operations. In order to meet such high demands, employees working in potentially hazardous environments require a high-quality, reliable gas detector that above all else, keeps them safe.

The highly configurable Ventis is specifically designed to meet unique gas detection needs while maintaining worker safety. Available with or without an optional, integral pump, the Ventis is ideal for confined space or personal monitoring. In addition to multiple sensor and battery configurations, you can choose from a robust suite of accessories. Each of these options for configuration ensures that when you receive your monitor, you receive only what you need. Best of all, the Ventis is compatible with iNet, enabling increased efficiency, safety and reduced costs.

## INCREASED EFFICIENCY

Focus on what is core to your business while we handle your gas detection program. As the Gas Detection People, gas detection is not only what we do - it's what we love to do.

## INCREASED SAFETY

On average, gas detectors go into high alarm once every ten days. Do you know how many high alarms your facility had? iNet gives you information and tools to fix problems before they happen.

## REDUCED COSTS

A gas detector's purchase price does not include continuous maintenance and servicing expenses. Eliminate unnecessary ownership and maintenance costs by subscribing to Gas Detection as a Service.

## HOW GAS DETECTION AS A SERVICE WORKS



**1.** Operators dock gas detectors owned by Industrial Scientific.



**2.** Docking stations perform bump tests, calibrations and record keeping.



**5.** When iNet detects a problem, Industrial Scientific rushes a replacement gas detector to you.



**4.** iNet emails real-time alerts and status reports.



**3.** iNet Control provides visibility into your gas detection program via the Internet.





Build and price your Ventis online with the Ventis MX4 instrument builder.

[www.indsci.com/ventisbuilder](http://www.indsci.com/ventisbuilder)

**MOST COMMON INSTRUMENT CONFIGURATIONS**

PART NO.	DESCRIPTION
VTS-K1231100y0z	Ventis - LEL, CO, H <sub>2</sub> S, O <sub>2</sub> , Li-ion, desktop charger, Black
VTS-K1231201y0z	Ventis - LEL, CO, H <sub>2</sub> S, O <sub>2</sub> , Li-ion, desktop charger/datalink, Safety Orange
VTS-K5231300y1z	Ventis - LEL, SO <sub>2</sub> , H <sub>2</sub> S, O <sub>2</sub> , Li-ion, auto charger, soft case, Black
VTS-K1031301y0z	Ventis - LEL, CO, O <sub>2</sub> , Li-ion, auto charger, Safety Orange
VTS-K1431000y1z	Ventis - LEL, CO, NO <sub>2</sub> , O <sub>2</sub> , Li-ion, no charger, soft case, Black
VTS-K1232111y0z	Ventis with pump - LEL, CO, H <sub>2</sub> S, O <sub>2</sub> , Extended Li-ion, desktop charger, Safety Orange
VTS-K1232110y1z	Ventis with pump - LEL, CO, H <sub>2</sub> S, O <sub>2</sub> , Extended Li-ion, desktop charger, soft case, Black
VTS-L1232110y2z	Ventis with pump - LEL (methane), CO, H <sub>2</sub> S, O <sub>2</sub> , Extended Li-ion, desktop charger, hard case with display window, Black
VTS-K5232111y0z	Ventis with Pump - LEL, SO <sub>2</sub> , H <sub>2</sub> S, O <sub>2</sub> , Extended Li-ion, desktop charger, Safety Orange

y = Agency Certification: 1 = UL/CSA, 2 = ATEX/IECEX, 3 = MSHA, 4 = ANZEx, 5 = CHINA EX, 6 = China MA, 7 = GOST-R/GOST-K, 8 = KOSHA, 9 = INMETRO, A = MED, B = SANS 1515, C = CHINA KA, D = TIIS

z = Language for included Reference Guide: 1 = EN, 2 = FR, 3 = ES, 4 = DE, 5 = ITA, 6 = DUT, 7 = PT, 9 = RUS, A = POL, B = CZE, C = CN, D = DAN, E = NOR, F = FIN, G = SWE, J = JPN

**VENTIS MX4 BATTERY KIT MATRIX**

**EXAMPLE:** VTSB-101 - Ventis MX4 Li-ion Battery Kit, Black, UL/CSA/ATEX/IECEX/GOST-R/GOST-K/KOSHA/ MED/SANS 1515

DESCRIPTION	Base	Battery	Color	Approvals
Ventis MX4 Battery Kit	VTSB-	1	0	1

**Select options below in addition to base price**

Lithium-ion battery		1		
Lithium-ion extended range battery (required for units with a pump)		2		
Alkaline battery		3		

**COLOR**

Black			0	
Safety Orange			1	

**CERTIFICATIONS**

UL/CSA/ATEX/IECEX/GOST-R/GOST-K/KOSHA/ MED and SANS 1515				1
MSHA*				2
CHINA EX / CHINA MA**				3
ANZEx				4
INMETRO				5
CHINA KA**				C
TIIS				D

Battery kits include: Battery pack, battery cover with appropriate label and screws.

\*Alkaline Battery Kit is not MSHA approved

\*\* Lithium-ion and Lithium-ion Extended Range Battery Kits are not CHINA MA or CHINA KA approved



VTSP-2011 PUMP

VTSP-0011 PUMP

**VENTIS MX4 INTEGRAL PUMP MATRIX**

**EXAMPLE:** VTSP-0011 - Ventis MX4 Pump, No Battery, Black, UL/CSA, English

DESCRIPTION	Base	Battery	Color	Approvals	Language
Ventis MX4 Pump	VTSP-	0	0	1	1

**Select options below in addition to base price**

**BATTERY**

None		0		
Lithium-ion extended range battery pack (required for units with a pump)		2		
Alkaline battery pack		3		

**COLOR**

Black			0	
Safety Orange			1	

**CERTIFICATIONS**

UL/CSA				1
ATEX/IECEX				2
MSHA				3
ANZEx				4
CHINA EX				5
GOST-R/GOST-K				7
KOSHA				8
INMETRO				9
MED				A
TIIS				D

**PUMP ASSEMBLY KIT GUIDE LANGUAGE**

English					1
French					2
Spanish					3
German					4
Italian					5
Dutch					6
Portuguese					7
Russian					9
Polish					A
Czech					B
Chinese					C
Danish					D
Norwegian					E
Finnish					F
Swedish					G
Japanese					J



**CONFINED SPACE KITS WITH SLIDE-ON PUMP MATRIX**

PART NO.	DESCRIPTION
VKVSP4-ABCDEF	Ventis Confined Space Kit with Ventis Slide-on Pump (LEL, CO, H <sub>2</sub> S, O <sub>2</sub> )

A = LEL Sensor Calibration: K = Pentane, L = Methane  
 B = Instrument Color: 0 = Black, 1 = Safety Orange  
 C = Monitor Battery: 1 = Lithium-ion, 2 = Extended Range Lithium-ion, 3 = Alkaline  
 D = Pump Battery: 1 = Lithium-ion, 2 = Extended Range Lithium-ion  
 E = Agency Certification: 1 = UL/CSA, 2 = ATEX/IECEX, 3 = MSHA, 9 = INMETRO  
 F = Documentation Language: 1 = EN, 2 = FR, 3 = ES, 4 = DE, 5 = ITA, 6 = DUT, 7 = PT, 9 = RUS, A = POL, B = CZE, C = CN, D = DAN, E = NOR, F = FIN, G = SWE

**COMMON CONFIGURATIONS OF CONFINED SPACE KITS WITH SLIDE-ON PUMP**

PART NO.	DESCRIPTION
VKVSP4-K11111	Ventis Confined Space Kit - LEL (Pentane), CO, H <sub>2</sub> S, O <sub>2</sub> , Orange, Li-ion Ventis Battery, Li-ion Pump Battery, UL/CSA, English
VKVSP4-L01111	Ventis Confined Space Kit - LEL (Methane), CO, H <sub>2</sub> S, O <sub>2</sub> , Black, Li-ion Ventis Battery, Li-ion Pump Battery, UL/CSA, English
VKVSP4-K11211	Ventis Confined Space Kit - LEL (Pentane), CO, H <sub>2</sub> S, O <sub>2</sub> , Orange, Li-ion Ventis Battery, Ext. Range Li-ion Pump Battery, UL/CSA, English
VKVSP4-K11122	Ventis Confined Space Kit - LEL (Pentane), CO, H <sub>2</sub> S, O <sub>2</sub> , Orange, Li-ion Ventis Battery, Li-ion Pump Battery, ATEX/IECEX, French
VKVSP4-K11222	Ventis Confined Space Kit - LEL (Pentane), CO, H <sub>2</sub> S, O <sub>2</sub> , Orange, Li-ion Ventis Battery, Ext. Range Li-ion Pump Battery, ATEX/IECEX, French

**Ventis Confined Space Kits with Slide-on Pump Include:** Ventis with LEL, CO, H<sub>2</sub>S, and O<sub>2</sub> sensors, Ventis Slide-on Pump, 110 VAC desktop charger for each rechargeable instrument ordered (max of 2), calibration cup and tubing with T-fitting, dust filter/water stop, 10 feet of sample tubing, 34 liter cylinder of calibration gas, manual regulator, rugged hard plastic carrying case

**THE VENTIS IS PARTICULARLY USEFUL IN THE FOLLOWING INDUSTRIES:**

- Chemical
- Construction
- Electrical / Gas Utilities
- Fire Service
- Oil and Gas
- Public Works
- Steel Production
- Water / Waste Water Treatment

**CONFINED SPACE KITS WITH INTEGRAL PUMP**

PART NO.	DESCRIPTION
VK-K123211xy1z	Ventis Confined Space Kit - LEL, CO, H <sub>2</sub> S, O <sub>2</sub>
VK-K103211xy1z	Ventis Confined Space Kit - LEL, CO, O <sub>2</sub>
VK-K023211xy1z	Ventis Confined Space Kit - LEL, H <sub>2</sub> S, O <sub>2</sub>
VK-K003211xy1z	Ventis Confined Space Kit - LEL, O <sub>2</sub>

x = Instrument Color: 0 = Black, 1 = Safety Orange  
 y = Agency Certification: 1 = UL/CSA, 2 = ATEX/IECEX, 3 = MSHA, 4 = ANZEx, 5 = CHINA EX, 7 = GOST-R/GOST-K, 8 = KOSHA, 9 = INMETRO, A = MED, D = TIIS  
 z = Language for included Reference Guide: 1 = EN, 2 = FR, 3 = ES, 4 = DE, 5 = ITA, 6 = DUT, 7 = PT, 9 = RUS, A = POL, B = CZE, C = CN, D = DAN, E = NOR, F = FIN, G = SWE, J = JPN

**Ventis Confined Space Kits with Integral Pump Include:** Ventis with integral pump, universal charger, soft carrying case, reference guide, calibration tubing, dust filter/water stop, calibration fitting, sample tubing, calibration gas (appropriate mix) with regulator, rugged hard plastic case.







18109327 DSX DOCKING STATION WITH VENTIS MX4\* (\*monitor not included)

18108631-00 V-CAL WITH VENTIS INSTRUMENT\* (\*monitor not included)



18108631-10 V-CAL WITH VENTIS WITH PUMP INSTRUMENT\* (\*monitor not included)

18108191 VENTIS CHARGER



18108650-0 6-UNIT CHARGER

18108209 CHARGER/DATALINK



18107763 PRINTER

18108653 TRUCK-MOUNT CHARGER, HARD WIRED



18108651 AUTOMOTIVE CHARGER



18108652 TRUCK-MOUNT CHARGER, WITH PLUG



18108811 VENTIS WITH PUMP HARD CARRYING CASE WITH DISPLAY



18108175 VENTIS WITHOUT PUMP SOFT CARRYING CASE, LI-ION BATTERY



PART NO.	DESCRIPTION
18109327-ABC	DSX™ Docking Station for Ventis™ MX4 A – DSX Mode: 0 = DSX Standalone 1 = DSXi Cloud-connected 2 = DSX-L Local Server B – Number of Gas Inlet Ports: 3 = 3 Ports, 6 = 6 Ports C – Power Cord Type: 0 = None, 1 = North America, 2 = EU, 3 = AUS, 4 = UK
18108631-AB	V•Cal™ Calibration Station A = Instrument type: 0 = Ventis, 1 = Ventis with pump B = Power cord: 0 = US, 1 = UK, 2 = EU, 3 = AUS, 4 = ITA, 5 = DEN, 6 = SWZ
18107664-ABC	V•Cal™ 6-Unit Calibration Station AB = Number of Ventis (A) and Ventis with pump (B) Instruments 06 = 0 Ventis and 6 Ventis with pump 33 = 3 Ventis and 3 Ventis with pump 60 = 6 Ventis and 0 Ventis with pump C = Power cord: 0 = Universal with US, UK, EU, AUS Plug adapters
18107763	Serial data dot matrix printer for V•Cal™ – 5 volts powered by the Cal Station
18108191	Single-unit charger
18108209	Single-unit charger/Datalink
18108651	Single-unit automotive charger, 12VDC, with plug
18108652	Single-unit truck-mount charger, 12VDC, with plug
18108653	Single-unit truck-mount charger, 12VDC, hard wired
18108650-A	6-Unit charger – A = Power cord: 0 = US, 1 = UK, 2 = EU, 3 = AUS, 4 = ITA, 5 = DEN, 6 = SWZ
18108950	MX4 External battery charge adaptor
18108175	Ventis without pump, soft carrying case, Li-ion battery
18108183	Ventis without pump, soft carrying case, extended range Li-ion battery or alkaline
18108813	Ventis without pump, hard carrying case with display, Li-ion battery
18108814	Ventis without pump, hard carrying case with display, extended range Li-ion battery or alkaline
18108815	Ventis without pump, hard carrying case without display, Li-ion battery
18108816	Ventis without pump, hard carrying case without display, extended range Li-ion battery or alkaline
18108810	Ventis with pump, soft carrying case
18108811	Ventis with pump, hard carrying case with display
18108812	Ventis with pump, hard carrying case without display
17134461	Replacement sensor, oxygen (O <sub>2</sub> )
17134479	Replacement sensor, hydrogen sulfide (H <sub>2</sub> S)
17134487	Replacement sensor, carbon monoxide (CO)
17155564	Replacement sensor, carbon monoxide/low hydrogen interference (CO/H <sub>2</sub> low)
17134495	Replacement sensor, combustible gas (LEL/CH <sub>4</sub> )
17134503	Replacement sensor, nitrogen dioxide (NO <sub>2</sub> )
17143595	Replacement sensor, sulfur dioxide (SO <sub>2</sub> )
17148313-1	Replacement extended range Li-ion battery pack, UL/CSA/ATEX/IECEx/INMETRO/GOST-R/GOST-K/KOSHA /MED/SANS 1515/TIIS
17148313-2	Replacement extended range Li-ion battery pack, MSHA
17148313-3	Replacement extended range Li-ion battery pack, CHINA EX
17148313-4	Replacement extended range Li-ion battery pack, ANZEx
17150608	Replacement alkaline battery pack
17152828-01	Ventis conversion kit, Ventis with pump to Ventis without pump, Black, UL/CSA/ATEX/IECEx/GOST-R/GOST-K/KOSHA
17152828-04	Ventis conversion kit, Ventis with pump to Ventis without pump, Black, ANZEx
17152828-11	Ventis conversion kit, Ventis with pump to Ventis without pump, Safety Orange, UL/CSA/ATEX/IECEx/GOST-R/GOST-K/KOSHA
17152828-14	Ventis conversion kit, Ventis with pump to Ventis without pump, Safety Orange, ANZEx

**INSTRUMENT WARRANTY:**

Two-year warranty, including sensors and battery

**CASE MATERIAL:**

Polycarbonate with protective rubber overmold

**DIMENSIONS:**

103 mm x 58 mm x 30 mm (4.1" X 2.3" X 1.2") - Ventis, lithium-ion battery version

172 mm x 67 mm x 66 mm (6.8" X 2.6" X 2.6") - Ventis with pump, lithium-ion battery version

**WEIGHT:**

182 g (6.4 oz) - Ventis, lithium-ion battery version

380 g (13.4 oz) - Ventis with pump, lithium-ion battery version

**OPERATING TEMPERATURE RANGE:**

-20°C- 50°C (-4°F-122°F)

**OPERATING HUMIDITY RANGE:**

15%-95% Non-condensing (continuous)

**DISPLAY/READOUT:**

Backlit liquid crystal display (LCD)

**POWER SOURCE/RUN TIME:**

Rechargeable lithium-ion battery pack

(12 hours typical @ 20°C) - Ventis

Rechargeable extended-range lithium-ion battery pack

(20 hours typical @ 20°C) - Ventis

(12 hours typical @ 20°C) - Ventis with pump

Replaceable AAA alkaline battery pack

(8 hours typical @ 20°C) - Ventis

(4 hours typical @ 20°C) - Ventis with pump

**ALARMS:**

Ultra-bright LEDs, loud audible alarm (95 dB at 30 cm) and vibrating alarm

**SENSORS:**

Combustible gases/methane - Catalytic diffusion

O<sub>2</sub>, CO, CO/H<sub>2</sub> low, H<sub>2</sub>S, NO<sub>2</sub>, SO<sub>2</sub> - Electrochemical

**MEASURING RANGES:**

Combustible gases:	0-100% LEL in 1% increments
Methane (CH <sub>4</sub> ):	0-5% of vol. In 0.01% increments
Oxygen (O <sub>2</sub> ):	0-30% of vol. In 0.1% increments
Carbon monoxide (CO/H <sub>2</sub> low):	0-1,000 ppm in 1 ppm increments
Carbon monoxide (CO):	0-1,000 ppm in 1 ppm increments
Hydrogen sulfide (H <sub>2</sub> S):	0-500 ppm in 0.1 ppm increments
Nitrogen dioxide (NO <sub>2</sub> ):	0-150 ppm in 0.1 ppm increments
Sulfur dioxide (SO <sub>2</sub> ):	0-150 ppm in 0.1 ppm increments

**CERTIFICATIONS:**

UL:	Class I, Division 1, Groups A B C D, T4; Zone 0, AEx ia IIC T4 Class II, Groups F G (Carbonaceous & Grain dust); IP66; IP67
ATEX:	Ex ia IIC T4 Ga and Ex ia I Ma; Equipment Group and Category II 1G and I M1; IP66; IP67
IECEX:	Ex ia IIC T4 Ga; IP66; IP67
CSA:	Class I, Division 1, Groups A B C D, T4; Ex d ia IIC T4 C22.2 No. 152 for %LEL reading only
ANZEx:	Ex ia s Zone 0 I/IIC T4; IP66; IP67
INMETRO:	Ex ia IIC T4 Ga; IP66; IP67
KOSHA:	Ex d ia IIC T4
MSHA:	30 CFR Part 22; Permissible for underground mines; Li-ion versions only
PA-DEP:	Permissible for PA Bituminous Underground Mines
CHINA EX:	Ex ia d IIC T4 Gb
CHINA CMC:	Metrology approval
CHINA MA:	Approved for underground mines; diffusion (without pump) Alkaline version only
China KA:	Ex ia d I Mb, diffusion (without pump) Alkaline version only
GOST- K:	PBExdial X / 1ExdialICT4 X
GOST-R:	PBExdial X / 1ExdialICT4 X
MED:	Portable Multigas Detector; Category 2 (MED 2012/32/EU); Li-ion only Charger/Docking Station accessories; category 1
SANS-1515-1:	Type A; Ex ia I/IIC T4 IP66/67; Li-ion only
TIIS:	Ex ia IIC T4 X

**SUPPLIED WITH MONITOR:**

Calibration Cup (Ventis), Sample Tubing (Ventis with pump), Ventis MX4 Reference Guide

**REFERENCE GUIDE LANGUAGE:**

English (1), French (2), Spanish (3), German (4), Italian (5), Dutch (6), Portuguese (7), Russian (9), Polish (A), Czech (B), Chinese (C), Danish (D), Norwegian (E), Finnish (F), Swedish (G), Japanese (J)

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



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