

# 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)



# Don't Buy Gas Detectors

## Subscribe to Gas Detection as a Service

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





## CONFIGURATION OPTIONS

BASE INSTRUMENT	SENSOR OPTIONS	BATTERY OPTIONS	VERSION OPTIONS	COLOR OPTIONS	AGENCY CERTIFICATIONS	REFERENCE GUIDE LANGUAGE	
 <b>VENTIS™ MX4</b> <b>Supplied with Monitor:</b> Calibration Cup (Ventis), Sample Tubing (Ventis with Pump), Ventis MX4 Reference Guide	<b>Combustible Gases</b> (sensor position 1): LEL (Pentane) LEL (Methane) CH <sub>4</sub> (0-5%)	Lithium-ion Battery Pack	Ventis	Black	UL/CSA	English * (1)	Russian (9)
		Lithium-ion Extended Range Battery Pack*	Ventis with Pump**	Safety Orange	ATEX/IECEx/INMETRO	French * (2)	Polish (A)
	<b>Toxic Gases</b> (sensor position 2 & 3): CO      H <sub>2</sub> S SO <sub>2</sub> NO <sub>2</sub>	Alkaline Battery Pack	Ventis with Pump and Conversion Kit**		MSHA†	Spanish (3)	Czech (B)
					CHINA EX	German * (4)	Chinese (C)
					CHINA MA‡	Italian (5)	Danish (D)
					ANZEx	Dutch (6)	Norwegian (E)
	<b>Oxygen</b> (sensor position 4): O <sub>2</sub>				KOSHA	Portuguese (7)	Finnish (F)
					GOST-R/GOST-K		Swedish (G)

\*Required for units with a pump

\*\*Requires extended range battery pack

\* Instrument language can be configured to English, French or German. If one of these languages is selected, instrument will be configured to that language.

†MSHA approval applies to lithium-ion versions only.

‡CHINA MA approval applies to Ventis (no pump) with lithium-ion battery pack only.

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

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

*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



- Stand-alone operation
- Link up to 100 IDS modules – dock thousands of instruments
- Automatic instrument calibration, record keeping, diagnostics and recharging
- Utilizes one central database
- Multilingual display
- iNet® compatible



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/INMETRO, 3 = MSHA, 4 = ANZEx, 5 = CHINA EX, 7 = GOST-R/GOST-K, 8 = KOSHA

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

## ORDERING INFORMATION



### VENTIS MX4 BATTERY KIT MATRIX

<b>EXAMPLE:</b> VTSB-101 - Ventis MX4 Li-ion Battery Kit, Black, UL/CSA/ATEX/IECEX	VTSP-	1	0	1
DESCRIPTION	Base	Battery	Color	Approvals
Ventis MX4 Battery Kit	VTSP-			
<b>Select options below in addition to base price</b>				
Lithium-ion battery		1		
Lithium-ion extended range battery (required for units with a pump)		2		
Alkaline battery		3		
<b>COLOR</b>				
Black			0	
Safety Orange			1	
<b>CERTIFICATIONS</b>				
UL/CSA/ATEX/IECEX/INMETRO/GOST-R/GOST-K/KOSHA				1
MSHA*				2
CHINA EX / CHINA MA**				3
ANZEx				4

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

\*Alkaline Battery Kit is not MSHA approved

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



### VENTIS MX4 PUMP MATRIX

<b>EXAMPLE:</b> VTSP-0011 - Ventis MX4 Pump, No Battery, Black, UL/CSA, English	VTSP-	0	0	1	1
DESCRIPTION	Base	Battery	Color	Approvals	Language
Ventis MX4 Pump	VTSP-				
<b>Select options below in addition to base price</b>					
<b>BATTERY</b>					
None		0			
Lithium-ion extended range battery pack (required for units with a pump)		2			
Alkaline battery pack		3			
<b>COLOR</b>					
Black			0		
Safety Orange			1		
<b>CERTIFICATIONS</b>					
UL/CSA				1	
ATEX/IECEX/INMETRO				2	
MSHA				3	
ANZEx				4	
CHINA EX				5	
GOST-R/GOST-K				7	
KOSHA				8	
<b>PUMP ASSEMBLY KIT GUIDE LANGUAGE</b>					
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

### CONFINED SPACE KITS

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/INMETRO, 3 = MSHA, 4 = ANZEx, 5 = CHINA EX, 8 = KOSHA

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

**Ventis Confined Space Kits Include:** Ventis with 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.

**INDUSTRIAL  
SCIENTIFIC**

www.indsci.com





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
18108630-0BC	DS2 Docking Station™ for Ventis MX4 B = Quantity of iGas® Reader: 0 = None 1 = 1 iGas® Reader 2 = 2 iGas Readers 3 = 3 iGas Readers C = Power cord: 0 = US, 1 = UK, 2 = EU, 3 = AUS, 4 = ITA, 5 = DEN, 6 = SWZ
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)
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
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/INMETRO/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/INMETRO/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, 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):	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 d ia IIC T4 Gb; 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) standard Li-ion version only
GOST- K:	PBExdial X / 1ExdialICT4 X
GOST-R:	PBExdial X / 1ExdialICT4 X

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



**INDUSTRIAL  
SCIENTIFIC**

www.indsci.com

**AMERICAS**

Phone: +1-412-788-4353  
1-800-DETECTS (338-3287) North America  
Fax: +1-412-788-8353  
info@indsci.com

**ASIA PACIFIC**

Phone: +65-6561-7377  
Fax: +65-6561-7787  
info@ap.indsci.com

**EUROPE**

Phone: +33-3-21-60-80-80  
00-800-WORKSAFE (9675-7233) Europe  
Fax: +33-3-21-60-80-00  
customersupport@eu.indsci.com

