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

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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.

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

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

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

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

www.indsci.com/ventisbuilder

MOST COMMON INSTRUMENT CONFIGURATIONS

PART NO.	DESCRIPTION
VTS-K1231100y0z	Ventis - LEL, CO, H_2S, O_2, Li-ion, desktop charger, Black
VTS-K1231201y0z	Ventis - LEL, CO, H_2S, O_2, Li-ion, desktop charger/datalink, Safety Orange
VTS-K5231300y1z	Ventis - LEL, SO_2, H_2S, O_2, Li-ion, auto charger, soft case, Black
VTS-K1031301y0z	Ventis - LEL, CO, O_2, Li-ion, auto charger, Safety Orange
VTS-K1431000y1z	Ventis - LEL, CO, NO_2, O_2, Li-ion, no charger, soft case, Black
VTS-K1232111y0z	Ventis with pump - LEL, CO, H_2S, O_2, Extended Li-ion, desktop charger, Safety Orange
VTS-K1232110y1z	Ventis with pump - LEL, CO, H_2S, O_2, Extended Li-ion, desktop charger, soft case, Black
VTS-L1232110y2z	Ventis with pump - LEL (methane), CO, H_2S, O_2, Extended Li-ion, desktop charger, hard case with display window, Black
VTS-K5232111y0z	Ventis with Pump - LEL, SO_2, H_2S, O_2, 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

VTSP-2011 PUMP   **VTSP-0011 PUMP**

VENTIS MX4 INTEGRAL PUMP MATRIX

DESCRIPTION	Base	Battery	Color	Approvals	Language
EXAMPLE: VTSP-0011 - Ventis MX4 Pump, No Battery, Black, UL/CSA, English	VTSP-	0	0	1	1
Ventis MX4 Pump	VTSP-				
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

VENTIS MX4 BATTERY KIT MATRIX

DESCRIPTION	Base	Battery	Color	Approvals
EXAMPLE: VTSB-101 - Ventis MX4 Li-ion Battery Kit, Black, UL/CSA/ATEX/IECEx/GOST-R/GOST-K/KOSHA/ MED/SANS 1515	VTSB-	1	0	1
Ventis MX4 Battery Kit	VTSB-			
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

CONFINED SPACE KITS WITH SLIDE-ON PUMP MATRIX

PART NO.	DESCRIPTION
VKVSP4-ABCDEF	Ventis Confined Space Kit with Ventis Slide-on Pump (LEL, CO, H₂S, O₂)

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,
$\quad$ 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, H₂S, O₂, Orange, Li-ion Ventis Battery, Li-ion Pump Battery, UL/CSA, English
VKVSP4-L01111	Ventis Confined Space Kit - LEL (Methane), CO, H₂S, O₂, Black, Li-ion Ventis Battery, Li-ion Pump Battery, UL/CSA, English
VKVSP4-K11211	Ventis Confined Space Kit - LEL (Pentane), CO, H₂S, O₂, Orange, Li-ion Ventis Battery, Ext. Range Li-ion Pump Battery, UL/CSA, English
VKVSP4-K11122	Ventis Confined Space Kit - LEL (Pentane), CO, H₂S, O₂, Orange, Li-ion Ventis Battery, Li-ion Pump Battery, ATEX/IECEx, French
VKVSP4-K11222	Ventis Confined Space Kit - LEL (Pentane), CO, H₂S, O₂, 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, H₂S, and O₂ 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, H₂S, O₂
VK-K103211xy1z	Ventis Confined Space Kit - LEL, CO, O₂
VK-K023211xy1z	Ventis Confined Space Kit - LEL, H2S, O₂
VK-K003211xy1z	Ventis Confined Space Kit - LEL, O₂

x = Instrument Color: 0 = Black, 1 = Safety Orange

y = Agency Certification: 1 = UL/CSA, 2 = ATEX/IECEx, 3 = MSHA, 4 = ANZEx,
$\quad$ 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,
$\quad$ 5 = ITA, 6 = DUT, 7 = PT, 9 = RUS, A = POL, B = CZE, C = CN, D = DAN,
$\quad$ E = NOR, F = FIN, G = SWE, J = JPN

Ventis Confined Space Kits with Integral Pump Include: Ventis with intergral 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.

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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

18108652 TRUCK-MOUNT CHARGER, WITH PLUG

18108651 AUTOMOTIVE CHARGER

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, 12VDVC, 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_2)
17134479	Replacement sensor, hydrogen sulfide (H_2S)
17134487	Replacement sensor, carbon monoxide (CO)
17155564	Replacement sensor, carbon monoxide/low hydrogen interference (CO/H_2 low)
17134495	Replacement sensor, combustible gas (LEL/CH_4)
17134503	Replacement sensor, nitrogen dioxide (NO_2)
17143595	Replacement sensor, sulfur dioxide (SO_2)
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_2, CO, CO/H_2 low, H_2S, NO_2, SO_2 - Electrochemical

MEASURING RANGES:

Sensor	Range
Combustible gases:	0-100% LEL in 1% increments
Methane (CH_4):	0-5% of vol. In 0.01% increments
Oxygen (O_2):	0-30% of vol. In 0.1% increments
Carbon monoxide (CO/H_2 low):	0-1,000 ppm in 1 ppm increments
Carbon monoxide (CO):	0-1,000 ppm in 1 ppm increments
Hydrogen sulfide (H_2S):	0-500 ppm in 0.1 ppm increments
Nitrogen dioxide (NO_2):	0-150 ppm in 0.1 ppm increments
Sulfur dioxide (SO_2):	0-150 ppm in 0.1 ppm increments

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

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 / 1ExdiaIICT4 X
GOST-R:	PBExdial X / 1ExdiaIICT4 X
MED:	Portable Multigas Detector; Category 2 (MED 2012/32/EU); Li-Ion only Charger/Docking Station accessories; category 1
SANS-1515:	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)

OHSAS 18001 Certified
ISO 9001 Certified
ISO 14001 Certified

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www.indsci.com

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

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

AUSTRALIA
Phone: +61-3-9644-7777
Fax: +61-3-9644-7709
auscustomerservice@ap.indsci.com

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