Pump up your gas detection program

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
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.

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**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.

---

*Don’t Buy Gas Detectors
Subscribe to Gas Detection as a Service*
### MOST COMMON INSTRUMENT CONFIGURATIONS

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>VTS-K1231100y0z</td>
<td>Ventis - LEL, CO, H₂S, O₂, Li-ion, desktop charger, Black</td>
</tr>
<tr>
<td>VTS-K1231201y0z</td>
<td>Ventis - LEL, CO, H₂S, O₂, Li-ion, desktop charger/datalink, Safety Orange</td>
</tr>
<tr>
<td>VTS-K5231300y1z</td>
<td>Ventis with pump - LEL, SO₂, H₂S, O₂, Extended Li-ion, desktop charger, Safety Orange</td>
</tr>
<tr>
<td>VTS-K1031301y0z</td>
<td>Ventis - LEL, CO, O₂, Li-ion, auto charger, Safety Orange</td>
</tr>
<tr>
<td>VTS-K1431000y1z</td>
<td>Ventis - LEL, CO, NO₂, O₂, Li-ion, no charger, soft case, Black</td>
</tr>
<tr>
<td>VTS-K1232111y0z</td>
<td>Ventis with pump - LEL, CO, H₂S, O₂, Extended Li-ion, desktop charger, Safety Orange</td>
</tr>
<tr>
<td>VTS-K1232110y1z</td>
<td>Ventis with pump - LEL, CO, H₂S, O₂, Extended Li-ion, desktop charger, soft case, Black</td>
</tr>
<tr>
<td>VTS-L1232110y2z</td>
<td>Ventis with pump - LEL (methane), CO, H₂S, O₂, Extended Li-ion, desktop charger, hard case with display window, Black</td>
</tr>
<tr>
<td>VTS-K5232111y0z</td>
<td>Ventis with Pump - LEL, SO₂, H₂S, O₂, Extended Li-ion, desktop charger, Safety Orange</td>
</tr>
</tbody>
</table>

y = Agency Certification: 1 = UL/CSA, 2 = ATEX/IECEx, 3 = MSHA, 4 = ANZEx, 5 = CHINA EX, 6 = GOST-R/GOST-K, 7 = KOSHA, 8 = INMETRO

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 MX4 BATTERY KIT MATRIX

#### EXAMPLE: VTSB-101 - Ventis MX4 Li-ion Battery Kit, Black, UL/CSA/ATEX/IECEx/INMETRO/GOST-R/GOST-K/KOSHA

<table>
<thead>
<tr>
<th>VTSB-</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>VTSB-101</td>
<td>Ventis MX4 Battery Kit</td>
</tr>
</tbody>
</table>

Select options below in addition to base price:
- Lithium-ion battery
- Lithium-ion extended range battery (required for units with a pump)
- Alkaline battery

**COLOR**
- Black
- Safety Orange

**CERTIFICATIONS**
- UL/CSA
- ATEX/IECEx
- MSHA
- ANZEx
- CHINA EX
- GOST-R/GOST-K
- KOSHA
- INMETRO

### VENTIS MX4 INTEGRAL PUMP MATRIX

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

<table>
<thead>
<tr>
<th>VTSP-</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>VTSP-0011</td>
<td>Ventis MX4 Pump</td>
</tr>
</tbody>
</table>

Select options below in addition to base price:
- **BATTERY**
  - None
  - Lithium-ion extended range battery pack (required for units with a pump)
  - Alkaline battery pack
- **COLOR**
  - Black
  - Safety Orange
- **CERTIFICATIONS**
  - UL/CSA
  - ATEX/IECEx
  - MSHA
  - ANZEx
  - CHINA EX
  - GOST-R/GOST-K
  - KOSHA
  - INMETRO

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 approved
## ORDERING INFORMATION

### CONFINED SPACE KITS WITH INTEGRAL PUMP

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>VKK-K123211xy1z</td>
<td>Ventis Confined Space Kit - LEL, CO, H₂S, O₂</td>
</tr>
<tr>
<td>VKK-K103211xy1z</td>
<td>Ventis Confined Space Kit - LEL, CO, O₂</td>
</tr>
<tr>
<td>VKK-K023211xy1z</td>
<td>Ventis Confined Space Kit - LEL, H₂S, O₂</td>
</tr>
<tr>
<td>VKK-K003211xy1z</td>
<td>Ventis Confined Space Kit - LEL, O₂</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>VKVS4-ABCDEF</td>
<td>Ventis Confined Space Kit with Ventis Slide-on Pump (LEL, CO, H₂S, O₂)</td>
</tr>
</tbody>
</table>

- **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

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>VKVS4-K11111</td>
<td>Ventis Confined Space Kit - LEL (Pentane), CO, H₂S, O₂, Orange, Li-ion Ventis Battery, Li-ion Pump Battery, UL/CSA, English</td>
</tr>
<tr>
<td>VKVS4-L01111</td>
<td>Ventis Confined Space Kit - LEL (Methane), CO, H₂S, O₂, Black, Li-ion Ventis Battery, Li-ion Pump Battery, UL/CSA, English</td>
</tr>
<tr>
<td>VKVS4-K11211</td>
<td>Ventis Confined Space Kit - LEL (Pentane), CO, H₂S, O₂, Orange, Li-ion Ventis Battery, Ext. Range Li-ion Pump Battery, UL/CSA, English</td>
</tr>
<tr>
<td>VKVS4-K11222</td>
<td>Ventis Confined Space Kit - LEL (Pentane), CO, H₂S, O₂, Orange, Li-ion Ventis Battery, Ext. Range Li-ion Pump Battery, ATEX/IECEx, French</td>
</tr>
<tr>
<td>VKVS4-K11222</td>
<td>Ventis Confined Space Kit - LEL (Pentane), CO, H₂S, O₂, Orange, Li-ion Ventis Battery, Ext. Range Li-ion Pump Battery, ATEX/IECEx, French</td>
</tr>
</tbody>
</table>

**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

**INDUSTRIAL SCIENTIFIC**

[www.indsci.com](http://www.indsci.com)
18109327-ABC 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

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

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
18108611 Ventis with pump, hard carrying case with display
18108812 Ventis with pump, hard carrying case without display

17134461 Replacement sensor, oxygen (O₂)
17134479 Replacement sensor, hydrogen sulfide (H₂S)
17134487 Replacement sensor, carbon monoxide (CO)
17155564 Replacement sensor, carbon monoxide/low hydrogen interference (CO/H₂ low)
17134495 Replacement sensor, combustible gas (LEL/CH₄)
17134503 Replacement sensor, nitrogen dioxide (NO₂)
17143595 Replacement sensor, sulfur dioxide (SO₂)
17148313-1 Replacement extended range Li-ion battery pack, UL/CSA/ATEX/IECEx/NMEX/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
17152628-01 Ventis conversion kit, Ventis with pump to Ventis without pump, Black, UL/CSA/ATEX/IECEx/GOST-R/GOST-K/KOSHA
17152628-04 Ventis conversion kit, Ventis with pump to Ventis without pump, Black,ANZEx
17152628-11 Ventis conversion kit, Ventis with pump to Ventis without pump, Safety Orange, UL/CSA/ATEX/IECEx/GOST-R/GOST-K/KOSHA
17152628-14 Ventis conversion kit, Ventis with pump to Ventis without pump, Safety Orange, ANZEx
INSTRUMENT WARRANTY:
Two-year warranty, including sensors and battery

CASE MATERIAL:
Poly carbonate 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
O₂, CO/H₂, CO₂, H₂S, NO₂, SO₂ - Electrochemical

MEASURING RANGES:
Combustible gases: 0-100% LEL in 1% increments
Methane (CH₄): 0-5% of vol. In 0.01% increments
Oxygen (O₂): 0-30% of vol. In 0.1% increments
Carbon monoxide (CO/H₂ low): 0-1,000 ppm in 1 ppm increments
Carbon monoxide (CO): 0-1,000 ppm in 1 ppm increments
Hydrogen sulfide (H₂S): 0-500 ppm in 0.1 ppm increments
Nitrogen dioxide (NO₂): 0-150 ppm in 0.1 ppm increments
Sulfur dioxide (SO₂): 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
ANZE: Ex ia s Zone 0 IIIC 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
GOST-K: PBExdia X / 1ExdiaIICT4 X
GOST-R: PBExdia X / 1ExdiaIICT4 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)

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