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Multi-Gas Detectors FOR THE MINING INDUSTRY

The Ventis™ MX4 and MX6 iBrid™ are the most reliable gas monitors for all of your gas detection needs within the mine:

- Personal monitoring
- Mine rescue
- Emergency shelters
- Diesel emissions
- Seal monitoring

**INDUSTRIAL
SCIENTIFIC**



VENTIS™ MX4

- Detect from one to four gases with a wide range of sensor options
- 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)
- Draw samples from up to 100 feet with an optional, integrated sampling pump

Build and Price Your Ventis MX4 Online at www.indsci.com/VentisBuilder

COMMON CONFIGURATIONS

| PART NO. | DESCRIPTION |
|-----------------|--|
| VTS-M1031001301 | Ventis – O ₂ , CO, CH ₄ , Li-ion, Safety Orange |
| VTS-M1431001301 | Ventis – O ₂ , CO, CH ₄ , NO ₂ , Li-ion, Safety Orange |
| VTS-M1231001301 | Ventis – O ₂ , CO, CH ₄ , H ₂ S, Li-ion, Safety Orange |
| VTS-M1032011301 | Ventis with pump – O ₂ , CO, CH ₄ , Ext. Li-ion, Safety Orange |
| VTS-M1432011301 | Ventis with pump – O ₂ , CO, CH ₄ , NO ₂ , Ext. Li-ion, Safety Orange |
| VTS-M1232011301 | Ventis with pump – O ₂ , CO, CH ₄ , H ₂ S, Ext. Li-ion, Safety Orange |

ACCESSORIES

| PART NO. | DESCRIPTION |
|------------------|---|
| 18109327-ABC-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: 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 |
| 18108191 | Single-unit Charger |
| 18108209 | Single-unit Charger/Datalink |

| | |
|---------------|---|
| 18108650-A | 6-Unit Charger – A = Power Cord: 0 = US, 1 = UK, 2 = EU, 3 = AUS, 4 = ITA, 5 = DEN, 6 = SWZ |
| 18108950 | 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 |
| 18108810 | Ventis with pump, soft carrying case |
| 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 |
| 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 |
| 18108811 | Ventis with pump, hard carrying case with display |
| 18108812 | Ventis with pump, hard carrying case without display |
| 17134461 | Replacement sensor, Oxygen (O ₂) |
| 18109162-1031 | Ventis Slide-on Pump, Lithium-ion Battery, Black, MSHA |
| 18109162-1131 | Ventis Slide-on Pump, Lithium-ion Battery, Orange, MSHA |
| 18109162-2031 | Ventis Slide-on Pump, Extended Lithium-ion Battery, Black, MSHA |
| 18109162-2131 | Ventis Slide-on Pump, Extended Lithium-ion Battery, Orange, MSHA |
| 17134479 | Replacement sensor, Hydrogen Sulfide (H ₂ S) |
| 17134487 | Replacement sensor, Carbon Monoxide (CO) |
| 17134495 | Replacement sensor, Combustible Gas (LEL/CH ₄) |
| 17134503 | Replacement sensor, Nitrogen Dioxide (NO ₂) |
| 17143595 | Replacement sensor, Sulfur Dioxide (SO ₂) |
| 17148313-2 | Replacement extended range Li-ion battery pack, MSHA |



iBRID™ MX6



- 24 Sensor options
- Simple, user-friendly, customizable menu-driven navigation
- Plug-and-Play field replaceable sensors
- Integral sampling pump or diffusion version
- Strong integral pump with 30.5 meters (100 feet) sample draw (optional)
- Up to 6 gases monitored simultaneously
- PID and infrared sensor options
- Full-color graphic LCD is highly visible in a variety of lighting conditions
- Five-way navigation button
- Powerful, 95 dB audible alarm
- Durable, concussion-proof overmold

ACCESSORIES

| PART NO. | DESCRIPTION |
|----------------------|--|
| 18109329-ABC -ABC | DSX™ Docking Station™ for MX6 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 |
| 18106765 | SP6 Motorized Sampling Pump Module |
| 18107086 | MX6 Datalink Assembly – Software included |
| 18106971 | MX6 Replacement battery charger |
| 18107094 | MX6 Battery charger/Datalink, universal |
| 18107011 | MX6 Battery charger, 12V |
| 18107136 | MX6 Battery charger, 5-Unit |
| 17131038-5 | Rechargeable Li-ion ext. battery pack, MSHA/AUS |
| 17131046-6 | Alkaline battery pack, MSHA/AUS |
| 18106856-0 | MX6 without pump hard leather carrying case |
| 18106880-0 | MX6 with pump hard leather carrying case |
| 18106831 | Nylon carrying case supplied with MX6 without pump |
| 18106864 | Nylon carrying case, supplied with MX6 with pump |
| 17124975-6 | Replacement sensor, Ammonia (NH ₃) |
| 17124975-L | Replacement sensor, Combustible Gas/LEL (CH ₄ , 0-5% vol) |
| 17124975-Q | Replacement sensor, Carbon Dioxide (CO ₂ /IR) |
| 17124975-1 | Replacement sensor, Carbon Monoxide (CO, 0-1500 ppm) |
| 17124975-H | Replacement sensor, Carbon Monoxide (CO, 0-9999 ppm) |
| 17124975-G | Replacement sensor, Carbon Monoxide/Hydrogen Low (CO/H ₂ Low) |
| 17124975-J | Replacement sensor, Carbon Monoxide/Hydrogen Sulfide (CO/H ₂ S) |
| 17124975-A | Replacement sensor, Hydrogen Chloride (HCl) |
| 17124975-B | Replacement sensor, Hydrogen Cyanide (HCN) |
| 17124975-2 | Replacement sensor, Hydrogen Sulfide (H ₂ S) |
| 17124975-M | Replacement sensor, Methane (CH ₄ , 0-5% vol) |
| 17124975-4 | Replacement sensor, Nitrogen Dioxide (NO ₂) |
| 17124975-3 | Replacement sensor, Oxygen (O ₂) |
| 17124975-N | Replacement sensor, Methane (CH ₄ /IR, 0-100% vol) |
| 17124975-S | Replacement sensor, Methane (CH ₄ /IR, 0-100% LEL) |

COMMON CONFIGURATIONS

| PART NO. | DESCRIPTION |
|-----------|--|
| MX6-M103N | O ₂ , CO, CH ₄ -IR, CH ₄ – seal monitoring |
| MX6-M4H3N | O ₂ , CO-HI RANGE, CH ₄ -IR, CH ₄ , NO ₂ – mine rescue teams |
| MX6-M103Q | O ₂ , CH ₄ , CO ₂ -IR, CO – emergency shelters |
| MX6-MDH34 | O ₂ , CH ₄ , NO, CO HIGH, NO ₂ – diesel monitoring |
| MX6-M1B36 | O ₂ , CO, CH ₄ , NH ₃ , HCN – various metal non-metal applications |

Build and Price Your MX6 iBrid Online at
www.indsci.com/MX6Builder



VENTIS MX4 SPECIFICATIONS*

INSTRUMENT WARRANTY

Two-year warranty, including sensors and battery pack

CASE MATERIAL

Polycarbonate with protective rubber overmold

DIMENSIONS

103 x 58 x 30 mm (4.1 x 2.3 x 1.2 in) without pump
 Lithium-ion battery version
 172 x 67 x 66 mm (6.8 X 2.6 X 2.6 in) with pump, Lithium-ion battery version

WEIGHT

182 g (6.4 oz) without pump, Lithium-ion battery version
 380 g (13.4 oz) with pump, Lithium-ion battery version

DISPLAY/READOUT

Backlit Liquid Crystal Display

POWER SOURCE/RUN TIME

Rechargeable Lithium-ion Battery Pack; (12 hours* @ 20 °C) without pump
 Rechargeable Extended-Range Lithium-ion Battery Pack:
 (20 hours* @ 20 °C) without pump
 (12 hours* @ 20 °C) with pump

ALARMS

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

TEMPERATURE RANGE

-20 °C to 50 °C (-4 °F to 122 °F)**

OPERATING HUMIDITY RANGE

15% to 95% non-condensing (continuous)

MEASURING RANGES:

| SENSOR | RANGE | RESOLUTION |
|-------------------------------------|-------------|------------|
| CATALYTIC BEAD | | |
| Combustible Gas | 0-100% LEL | 1% |
| Methane | 0-5% vol | 0.01% |
| ELECTROCHEMICAL | | |
| Carbon Monoxide (CO) | 0-1,000 ppm | 1 |
| Carbon Monoxide/Hydrogen low | 0-1,000 ppm | 1 |
| Hydrogen Sulfide (H ₂ S) | 0-500 ppm | 0.1 |
| Nitrogen Dioxide (NO ₂) | 0-150 ppm | 0.1 |
| Oxygen (O ₂) | 0-30% vol | 0.1% |
| Sulfur Dioxide (SO ₂) | 0-150 ppm | 0.1 |

CERTIFICATIONS

MSHA: 30 CFR Part 22; Permissible for underground mines; Li-ion versions only
 BFE: Permissible for PA Bituminous underground mines
 CSA: Class I, Division 1, Groups A B C D, T4; Ex d ia IIC T4
 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

* 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.



MX6 iBRID SPECIFICATIONS*

INSTRUMENT WARRANTY

Warranted for as long as the instrument is supported by Industrial Scientific Corporation

CASE MATERIAL

Lexan/ABS/Stainless Steel with protective rubber overmold

DIMENSIONS

135 x 77 x 43 mm (5.3 x 3.05 x 1.7 in) without pump
 167 x 77 x 56 mm (6.6 x 3.1 x 2.2 in) with pump

WEIGHT

409 g (14.4 oz) typical, without pump
 511 g (18.0 oz) typical, with pump

DISPLAY/READOUT

Color Graphic Liquid Crystal Display

POWER SOURCE/RUN TIMES

Rechargeable, Extended-Range Lithium-ion (Li-ion) Battery Pack (36 hours*)
 Replaceable AA Alkaline Battery Pack (10.5 hours*)

OPERATING TEMPERATURE RANGE

-20 °C to 55 °C (-4 °F to 131 °F)

OPERATING HUMIDITY RANGE

15% to 95% non-condensing (continuous)

MEASURING RANGES:

| SENSOR | RANGE | RESOLUTION |
|---|--|------------|
| CATALYTIC BEAD | | |
| Combustible Gas | 0-100% LEL | 1% |
| Methane | 0-5% vol | 0.01% |
| ELECTROCHEMICAL | | |
| Ammonia | 0-500 ppm | 1 |
| Carbon Monoxide | 0-1,500 ppm | 1 |
| Carbon Monoxide (High Range) | 0-9,999 ppm | 1 |
| Carbon Monoxide/Hydrogen low | 0-1,500 ppm | 1 |
| Carbon Monoxide/ Hydrogen Sulfide (COSH) | CO: 0-1,500 ppm H ₂ S: 0-500 ppm | 1 0.1 |
| Hydrogen Chloride | 0-30 ppm | 0.1 |
| Hydrogen Cyanide | 0-30 ppm | 0.1 |
| Hydrogen Sulfide | 0-500 ppm | 0.1 |
| Nitrogen Dioxide | 0-150 ppm | 0.1 |
| Oxygen | 0-30% vol | 0.1% |

INFRARED

| | | |
|-----------------|------------|-------|
| Methane (% vol) | 0-100% vol | 1% |
| Methane (% LEL) | 0-100% LEL | 1% |
| Carbon Dioxide | 0-5% vol | 0.01% |

Other Sensors Available including LEL(Pentane), SO₂, Cl₂, ClO₂, H₂, NO, PH₃ and PID.

CERTIFICATIONS

MSHA: CFR30, Part 22, Intrinsically safe for methane/air mixtures
 BFE: Permissible for PA Bituminous Underground Mines
 CSA: Class I, Groups A B C D T4; Ex d ia IIC T4
 UL: Class I, Division 1, Groups A B C D T4; Class II, Groups F G;
 Class I, Zone 0, AEx ia d IIC T4 (or AEx ia d IIC T4 w/ IR sensor)

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

Mine Rescue Dog Uses MX6 iBrid Personal Gas Monitor

Ginny, a Dutch Shepherd, has been trained to support mine rescue teams in locating injured and trapped miners. She assists Alpha Natural Resources in coal mine search and rescue using her vast skill set acquired through intensive training, as well as her developed sense of smell. To ensure Ginny's safety, she wears an MX6 iBrid from Industrial Scientific to detect hazardous gases within the mine. Learn more at www.facebook.com/AlphaRescueDog.

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