

Ventis™ MX4 and MX6 iBrid™ for Mining

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**

www.indsci.com

VENTIS™ MX4



18108631-00
V-CAL

18108630-0BC
DS2 DOCKING STATION*



18107664-600 V-CAL 6-UNIT

- 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)

COMMON CONFIGURATIONS

PART NO.	DESCRIPTION
VTS-M1031001301	O ₂ ,CO,CH ₄
VTS-M1431001301	O ₂ ,CO,CH ₄ ,NO ₂
VTS-M1231001301	O ₂ ,CO,CH ₄ ,H ₂ S

The part numbers listed above assume the instrument has a Safety Orange overmold, is without a pump and has a 12-hour battery. To build your own Ventis, visit www.indsci.com/ventisbuilder.

ACCESSORIES

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
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	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
17134461	Replacement Sensor, Oxygen (O ₂)
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



18108650-0
6-UNIT CHARGER



18108191 VENTIS
CHARGER

- Simple, user-friendly, menu-driven navigation
- Detect from one to six gases
- Plug-and-play field replaceable sensors
- Available with or without internal sampling pump
- Rugged, concussion-proof overmold

COMMON CONFIGURATIONS

PART NO.	DESCRIPTION
MX6-M103N511	O ₂ ,CO,CH ₄ -IR, CH ₄ , with pump used for seal monitoring
MX6-M4H3N401	O ₂ ,CO-HI RANGE, CH ₄ -IR, CH ₄ ,NO ₂ , used for mine rescue teams
MX6-M103Q511	O ₂ ,CH ₄ ,CO ₂ , CO, with pump used for emergency shelters
MX6-M1B36401	O ₂ ,CO,CH ₄ ,NH ₃ ,HCN, used for various metal non-metal applications
MX6-M1234501	O ₂ ,CO,CH ₄ ,H ₂ S,NO ₂ , used when all three toxic gases are present

ACCESSORIES

PART NO.	DESCRIPTION
18106724-0BC	DS2 Docking Station for MX6 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
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
17131038-4	Rechargeable Li-ion Battery Pack, MSHA/AUS
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
18106856-1	MX6 without pump Hard Leather Case and without display
18106880-0	MX6 with pump Hard Leather Carrying Case
18106880-1	MX6 with pump Hard Leather Case without display
18106831	Nylon Carrying Case supplied with MX6 without pump
18106864	Nylon Carrying Case, supplied with MX6 with pump
17124975-3	Replacement Sensor, Oxygen (O ₂)
17124975-2	Replacement Sensor, Hydrogen Sulfide (H ₂ S)
17124975-1	Replacement Sensor, Carbon Monoxide (CO)
17124975-M	Replacement Sensor, Combustible Gas (CH ₄)
17124975-4	Replacement Sensor, Nitrogen Dioxide (NO ₂)
17124975-5	Replacement Sensor, Sulfur Dioxide (SO ₂)
17124975-6	Replacement Sensor, Ammonia (NH ₃)
17124975-N	Replacement Sensor, Methane (IR) (CH ₄ -IR)
17124975-Q	Replacement Sensor, Carbon Dioxide (IR) (CO ₂ -IR)
17124975-B	Replacement Sensor, Hydrogen Cyanide (HCN)

18106724-ABC+ DS2
DOCKING STATION

SP6 MOTORIZED
SAMPLING PUMP

18107136 MULTI-UNIT CHARGER

18106971 CHARGER

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*NOTE: Monitor is not included with accessories

CAPACITY IS 35 PERSONS

EMERGENCY ACCESS

VALVES



VENTIS MX4 SPECIFICATIONS*

INSTRUMENT WARRANTY:

Two- year warranty, including sensors and battery pack

CASE MATERIAL:

Polycarbonate with protective rubber overmold

DIMENSIONS:

103 mm x 58 mm x 30 mm (4.1" x 2.3" x 1.2") - Lithium-ion battery version

WEIGHT:

182 g (6.4 oz) - Lithium-ion battery version

DISPLAY/READOUT:

Backlit Liquid Crystal Display

POWER SOURCE/RUN TIME:

Rechargeable Lithium-ion Battery Pack (12 hours* @ 20°C)
Rechargeable Extended-Range Lithium-ion Battery Pack (20 hours* @ 20°C)
Replaceable AAA Alkaline Battery Pack (8 hours* @ 20°C)

ALARMS:

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

SENSORS:

Combustible gases/methane - Catalytic Diffusion
O₂, CO, H₂S, NO₂, SO₂ - Electrochemical

OPERATING TEMPERATURE RANGE:

-20°C- 50°C (-4°F-122°F)

OPERATING HUMIDITY RANGE:

15%-95% Non-condensing (continuous)

MEASURING RANGES:

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):	0-1,000 ppm in 1 ppm increments
Hydrogen Sulfide (H ₂ S):	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

CERTIFICATIONS:

MSHA: 30 CFR Part 22; Permissible for Underground Mines;
Lithium-ion versions without pump only
CSA: Class I, Division 1, Groups A B C D, T4; Ex d ia IIC T4
C22.2 No. 152 for %LEL reading only
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

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 mm x 77 mm x 43 mm (5.3" x 3.05" x 1.7") – without pump

WEIGHT:

409 g (14.4 oz) – without pump

DISPLAY/READOUT:

Color Graphic Liquid Crystal Display

POWER SOURCE/RUN TIMES:

Rechargeable Lithium-ion (Li-ion) Battery Pack (24 hours*)
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)

SENSORS:

Combustible Gas / Methane – Catalytic Diffusion/Infrared
Oxygen and Toxic Gases – Electrochemical
Carbon Dioxide – Infrared

MEASURING RANGES:

Combustible Gas – 0 to 100% LEL in 1% or 10 ppm increments – Catalytic
(0 to 100% LEL in 1% increments – Infrared)
Methane – 0 to 5% of volume in 0.01% increments – Catalytic
(0 to 100% of volume in 1% increments – Infrared)
Oxygen – 0 to 30% of volume in 0.1% increments
Carbon Monoxide – 0 to 1,500 ppm in 1 ppm increments
(0 to 9,999 ppm in 1 ppm increments optional)
Hydrogen Sulfide – 0 to 500 ppm in 0.1 ppm increments
CO/H₂S – Carbon Monoxide – 0 to 1,500 ppm in 1 ppm increments
– Hydrogen Sulfide – 0 to 500 ppm in 0.1 ppm increments
Hydrogen – 0 to 2,000 ppm in 1 ppm increments
Nitrogen Dioxide, Sulfur Dioxide – 0 to 150 ppm in 0.1 ppm increments
Hydrogen Cyanide, Hydrogen Chloride –
0 to 30 ppm in 0.1 ppm increments
Carbon Dioxide – 0 to 5% of volume in 0.01% increments

CERTIFICATIONS:

MSHA: 30 CFR Part 22; Permissible for Underground Mines
CSA: Class I, Groups A,B,C,D T4; Ex d ia IIC T4
UL: Class I, Groups A,B,C,D T4; Class II, Groups F,G; AEx ia IIC T4

* 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.AlphaMineRescueDog.com.



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