Our Story

The Ventis Diner is proud to serve up safety all day, every day. Established in 2011, the Diner's already famous Ventis MX4 gas detector perfectly satisfies those cravings for a small, reliable multi-gas instrument to be used in a variety of applications.

At the Diner, we understand that each of our patrons have unique gas detection needs. That's why The Gas Detection People are so pleased to be able to meet those needs with the highly configurable Ventis. When ordering the instrument, select a powerful, yet lightweight pump for easy monitoring in confined spaces; choose a safety orange overmold for increased visibility of your fleet; or pick from a wide range of sensors to ensure safety in a variety of environments.

Best of all, you may order the Ventis with iNet™ – Industrial Scientific's software-based service that increases safety by providing visibility into alarms, exposure and usage. With iNet, patrons are delighted to find that they do not have to buy the Ventis and instead can subscribe to Gas Detection as a Service for a monthly fee.

We invite you to stop in to view our menu which includes the many ways the Ventis and iNet can meet your specific gas detection needs. Need a faster way to curb your appetite?

INDUSTRIAL SCIENTIFIC

TECHNICAL SPECIFICATIONS

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 (typical)
172 mm x 67 mm x 66 mm (6.8" x 2.6" x 2.6") - Ventis with Pump, Lithium-ion Battery Version (typical)

Weight:
182 g (6.4 oz) - Ventis, Lithium-ion Battery Version (typical)
380 g (13.4 oz) - Ventis with Pump, Lithium-ion Battery Version (typical)

Operating Temperature Range:
-20°C- 50°C (-4°F-122°F) typical

Operating Humidity Range:
15%-95% Non-condensing (continuous) typical

Display/Readout:
Backlit Liquid Crystal Display (LCD)

Power Source/Run Time:
Rechargeable Lithium-ion Battery Pack
(12 hours typical @ 20ºC) - Ventis
Rechargeable Extended-Range Lithium-ion Battery Pack
(20 hours typical @ 20ºC) - Ventis
(12 hours typical @ 20ºC) - Ventis with Pump
Replaceable AAA Alkaline Battery Pack
(8 hours typical @ 20ºC) - Ventis
(4 hours typical @ 20ºC) - 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, H_2S, NO_2, SO_2 - Electrochemical

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_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

Certifications:
UL
Class I, Division 1, Groups A B C D, T4
Class II, Groups F G (Carbonaceous & Grain Dust)
Class I, Zone 1, AEx ia d IIC
IP66: IP67
ATEX
Ex d ia I Mb / Ex d ia IIC T4 Gb;
Equipment Group and Category I M2 and II 2G
IP66: IP67
IECEx
Ex d ia IIC T4 Gb
IP66: IP67
CSA
Class I, Division 1, Groups A B C D, T4
C22.2 No. 152
Ex d ia IIC T4
ANZEx
Ex ia s Zone 0 I
Ex ia s Zone 0 IIC T4
IP66: IP67
INMETRO
Ex d ia IIC T4 Gb
IP66: IP67

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ISO 9001:2008 CERTIFIED
ISO 14001:2004 CERTIFIED

Ex-Ox-Tox Gasdetectie
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The VENTIS™ DINER

Served by The Gas Detection People

INDUSTRIAL SCIENTIFIC

Versions

Ventis....................................*Served with a calibration cup, calibration tubing, service tool and reference guide*

Ventis with a pump ....*Served with sample tubing, calibration tubing, service tool and reference guide*

Sensors

Combustible gases (Select one)...........................*LEL (Pentane), LEL (Methane), CH$_4$ (0-5%)*

Toxic gases (Select two)................................ *CO, H$_2$S, SO$_2$, NO$_2$*

Oxygen ....*O$_2$*

Batteries

Rechargeable lithium-ion battery.............. *Up to 12 hours of run time without pump*

Rechargeable extended-range lithium-ion battery.......... *Up to 12 hours of run time with pump or 20 hours without pump*

Replaceable AAA Alkaline battery pack............................. *Up to 4 hours of run time with pump or 8 hours without pump*

Colors

Black...

Safety orange. ....

Reference Guide Languages

Language (Select one) .... *English, French, Spanish, German, Italian, Dutch, Portuguese, Russian, Polish, Czech, Chinese, Danish, Norwegian, Finnish, Swedish*

Docking Station

Optimize nearly any size gas detector fleet using a Docking Station that provides consistent and automated calibration, record keeping, diagnostics and battery recharging.

Calibration Stations

Calibrate and bump test the Ventis with or without the pump using the stand-alone station designed for use with the respective configuration.

Chargers

Prepare your Ventis and/or gas detector fleet for operation by choosing from a number of charger options which range from a simple single-unit charger to a robust six-unit charger.

Cases

Select a soft or leather carrying case to ensure protection of your instrument no matter the environment.

Confined Space Kits

Simplify confined space monitoring using a kit which includes the Ventis with a pump, universal charger, soft carrying case, service tool, reference guide, calibration tubing, dust filter/water stop, calibration fitting, sample tubing, calibration gas (appropriate mix) with regulator and rugged case.

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Perfect for personal or confined space entry monitoring, the Ventis is useful in a variety of industries. The Ventis Diner offers classic diner selections that can be commonly used in the following industries and applications.

Construction

- Confined space entry *(trenching, tank entry)*........ O$_2$, LEL, CO, H$_2$S or NO$_2$
- Personal monitoring... O$_2$, LEL, CO, H$_2$S or NO$_2$

Electrical / Gas Utilities

- Coal storage *(coal loading, bin inspection)* .... CO, CH$_4$
- Boiler operations *(confined spaces, boiler startup, maintenance)*.. O$_2$, LEL, CO, SO$_2$ or NO$_2$
- Confined space entry *(transmission, distribution, maintenance, turnaround, transformer vaults, manholes)*...................... O$_2$, LEL, CO, H$_2$S
- Pipeline construction *(trenching)*.................................... O$_2$, LEL, CO, H$_2$S

Steel Production

- Blast furnace *(operations and maintenance)*........ O$_2$, LEL, CO, SO$_2$ or NO$_2$
- Pits *(pit inspection, maintenance)*.. CO, O2
- Confined space entry *(maintenance, turnaround)* .... O$_2$, LEL, CO, H$_2$S
- Personal monitoring.................................... O$_2$, LEL, CO, H2S, NO$_2$ or SO$_2$

Oil and Gas Production

- Drilling *(spudding, drilling, flaring)* .... O$_2$, LEL, H$_2$S, SO$_2$
- Transportation, storage and distribution *(pipelines, tanker truck, tank farms, pipeline monitoring)*.................. O$_2$, LEL, H$_2$S, SO$_2$
- Confined space entry *(maintenance, turnaround)* .... O$_2$, LEL, CO, H$_2$S

Chemical

- Hot work *("live" pipes, tank work)*.................................. O$_2$, LEL, CO, H$_2$S
- Confined space entry *(tank/vessel entry)* ..... O$_2$, LEL, CO, H$_2$S, SO$_2$ or NO$_2$
- Personal monitoring.. O$_2$, LEL, CO, H$_2$S or SO$_2$

Fire Services

- Confined space entry *(confined space rescue)* .... O$_2$, LEL, CO, H$_2$S
- Carbon monoxide response .... CO
- Hazmat .... O$_2$, LEL, CO, H$_2$S, SO$_2$ or NO$_2$
- Gas leak response... O$_2$, LEL

Water / Waste Water Treatment

- Storm and waste water collection *(dry/wet wells, manholes, sumps WWT plants)*............................ O$_2$, LEL, CO, H$_2$S or SO$_2$
- Confined space entry *(meter pits, vaults, underground tunnels, access ways, dry/wet wells)*................................ O$_2$, LEL, CO, H$_2$S