The Ventis™ Pro Series Multi-Gas Monitors offer a variety of flexible sensor options to detect up to five gases across a range of industrial settings. Both the Ventis™ Pro4 and Ventis™ Pro5 are equipped with new features to improve worker safety and hazard management—all in the most configurable multi-gas monitors on the market.

PHYSICAL CHARACTERISTICS

Dimensions	**Standard Battery without Pump** – 104 x 58 x 36 mm (4.1 x 2.3 x 1.4 in) **Extended battery, without Pump** – 104 x 58 x 58 mm (4.1 x 2.3 x 2.3 in) **With Pump** – 172 x 67 x 65 mm (6.8 x 2.6 x 2.6 in)
Weight	**Standard Battery, without Pump** – 200g (7.05 oz.), typical **Extended Battery, without Pump** – 230g (9.17 oz.), typical **With Pump** – 390g (13.76 oz.), typical
Case Material	Instrument shall have a polycarbonate case with protective rubber overmold
Display	Instrument shall have a backlit liquid crystal display (LCD)
Keypad	Instrument shall have no more than 2 buttons to operate plus a dedicated panic button
Temperature Range	-40 °C to 50 °C (-40 °F to 122 °F)
Humidity Range	15%-95% Non-condensing (continuous)

ALARMS

Alarm Indicators	**Audible** – Instrument shall have an audible alarm capable of emitting a 95 decibel (dB) audible alarm at a distance of 10 cm (3.94") **Visual** – Instrument shall have four visual alarm LEDs | Instrument shall use blue and red LEDs **Vibrating** – Instrument shall have a vibration alarm
Man-Down Alarm	Instrument shall be equipped with a man-down alarm that provides notification when the instrument is not moving
Panic Alarm	Instrument shall have a dedicated panic button that allows the instrument operator to notify others of a potentially dangerous situation
Alarm Action Message	Instrument shall be able to provide text instruction when in alarm. Instructions shall be customizable and allow for unique messages based on the gas and alarm level
Full Screen Alarms	Instrument shall have the option to display the gas type and gas reading as full-screen when the instrument is in alarm
Acknowledgeable Gas Alerts	Instrument shall have an alarm set point below the low-alarm level that can be acknowledged and silenced/paused for 30 minutes
Customization	Instrument shall allow users to select a combination of alarm signals (visual, audible, and/or vibrating)

INDUSTRIAL SCIENTIFIC

SENSORS

Sensor Options	**Gas Type**	**Type**	**Range**	**Resolution**

Gas Type	Type	Range	Resolution
Combustible	Catalytic Bead	0-100% LEL	1% LEL
Methane	Catalytic Bead	0-5% vol	0.01% vol
Oxygen	Electrochemical	0-30% vol	0.1% vol
Carbon Monoxide	Electrochemical	0-2,000 ppm	1 ppm
Carbon Monoxide (Low Hydrogen cross sensitivity)	Electrochemical	0-1,000 ppm	1 ppm
Hydrogen Sulfide	Electrochemical	0-500 ppm	0.1 ppm
Sulfur Dioxide	Electrochemical	0-150 ppm	0.1 ppm
Nitrogen Dioxide	Electrochemical	0-150 ppm	0.1 ppm
Hydrogen Cyanide	Electrochemical	0-30 ppm	0.1 ppm
Ammonia	Electrochemical	0-500 ppm	1 ppm
Carbon Monoxide/ Hydrogen Sulfide	Electrochemical	0-1,500 ppm 0-500 ppm	1 ppm 0.1 ppm
Carbon Dioxide/ Hydrocarbons	Infrared	CO_2: 0-5% vol CH_4: 0-100% LEL	0.01% vol 0.01% LEL
Carbon Dioxide/ Methane	Infrared	CO_2: 0-5% vol CH_4: 0-5% vol CH_4: 5-100% vol	0.01% vol 0.01% vol 0.1% vol

Configuration Flexibility	Sensor slots shall be compatible with a variety of sensors, allowing for over 500 different sensor configurations
Dual Range CH_4 IR Sensor	Dual-range CH_4 IR sensor shall meet personal protection requirements for methane detection from 0-5% vol with 0.01% vol resolution while also measuring the 5-100% range with 0.1% resolution
DualSense™ Technology	Instrument shall allow two sensors to measure for the same gas Two sensors shall increase accuracy and reduce the frequency of bump tests
Span Reserve Percentages	Instrument shall use span reserve percentages to indicate a sensor's remaining life, reducing instrument downtime as maintenance may be planned in advance

MAINTENANCE

Docking Stations	Instrument shall be compatible with a docking station that synchronizes data, controls settings, charges the instrument, and automates maintenance tasks such as zeroing, calibration, and bump testing
Cloud-Based Management	Instrument and docking station shall be compatible with a cloud-based solution that allows for configuration and continuous management of the gas-detection program from any mobile browser or web-enabled PC Cloud-based solution may be used by internal or external service teams to provide routine and emergency support, including bump tests, calibrations, instrument or sensor replacement, hardware and software updates, documentation of logged data, and other support services

INDUSTRIAL
SCIENTIFIC

MAINTENANCE (CONTINUED)

Calibration Stations	Instrument shall allow automated calibrations and bump tests through the use of a calibration station
Chargers	Instrument shall be chargeable using a desktop charge, automotive charger, or docking station
Maintenance Warnings	Instrument shall have customizable maintenance warnings that indicate when calibration, bump testing, and/or zeroing are past due
Maintenance Reminders	Instrument shall allow for customization of maintenance reminders: **Calibration Due –** Instrument shall be able to display notifications that indicate when calibration is next due **Bump Test Due –** Instrument shall be able to display a notification when bump testing is overdue **Dock Due –** Instrument shall be able to display a notification when it should be docked for calibration, bump testing, and data synchronization
Startup Maintenance	Instrument shall provide the option to prompt for zeroing, calibration, and bump testing during instrument startup

EASE OF USE

Customizable Startup	Instrument startup shall be customizable with the ability to add or remove screens and functionality
Startup Messages	Customizable start-up message shall display and require acknowledgment
Startup Information	Instrument shall have one-button activation and display the date, time, user name, site name, and sensor settings during startup
Configurable User Interface	Instrument shall provide customization options that allow maintenance task prompts (including bump testing, zeroing, and calibration) and informational screens (including TWA, STEL, peak readings, sensor settings, and maintenance reminders) to be hidden or displayed
Language	Instrument shall have the option of selecting English, Spanish, French, or German for the display language
Time and Temperature	Instrument shall display the ambient temperature and time while displaying gas readings
Selectable Time Format	Instrument shall allow time to display using a 12-hour or 24-hour clock
Selectable Temperature Format	Instrument shall allow time to display using Fahrenheit or Celsius
Confidence Indicator	Instrument must be capable of providing periodic signals indicating instrument operation. User shall have option of selecting audible, visual, or audible and visual signals.
View Installed Sensors and Setpoints	Instrument shall be capable of displaying the installed gas sensors and the alarm setpoints
Quick Status Screen	Instrument shall be able to display the installed sensors, serial number, and battery charge level when powered off
Always On	Instrument shall offer always on functionality to prevent unauthorized shutdown while in use
Shutdown in Alarm	Instrument shall provide a setting to prevent unauthorized shutdown while in alarm, including when always on functionality is disabled
Field Configurable	User shall have the option to configure instrument settings directly on the instrument

INDUSTRIAL SCIENTIFIC

BATTERY OPTIONS & RUNTIME

Standard Lithium-Ion Battery	**LEL Sensor without Pump** – Instrument shall operate for at least 12 hours **IR Sensor without Pump** – Instrument shall operate for at least 36 hours **No LEL or IR Sensor without Pump** – Instrument shall operate for at least 100 hours
Extended Run Lithium-Ion Battery	**LEL Sensor without Pump** – Instrument shall operate for at least 24 hours **IR Sensor without Pump** – Instrument shall operate for at least 72 hours **No LEL or IR Sensor without Pump** – Instrument shall operate for at least 175 hours **LEL Sensor with Pump** – Instrument shall operate for at least 18 hours **IR Sensor with Pump** – Instrument shall operate for at least 32 hours **No LEL or IR Sensor with Pump** – Instrument shall operate for at least 40 hours

WARRANTY

Instrument Warranty	Instrument shall be Guaranteed for Life™ for as long as supported by Industrial Scientific Corporation (excluding sensors, batteries, and filters) Pumps and batteries shall be warranted for two years
Sensor Warranty	O_2, LEL, CO, and H_2S sensors shall be warranted for three years All other sensors shall be warranted for two years

PUMP OPTIONS

Without Pump (Diffusion)	Instrument shall be available as a diffusion instrument
With Integral Pump	Instrument shall be available with a non-detachable integral pump that is capable of sampling up to 100ft

DURABILITY

Ingress Protection	Instrument shall be IP68 (submersion 1 hour at 1.5 meters)
External Dust Filters	Instrument shall have replaceable external dust filters to protect the sensors from damage due to dust particles and other debris
Internal Dust and Water Filter	Instrument shall have replaceable internal dust and water filters to protect the sensors from damage due to dust, debris, and liquids

DATA LOG

Data Log	Instrument data log must store at least three months of data (at 10-second intervals) without overwriting existing information during normal use
Event Log	Instrument event log shall record at least 60 events

INDUSTRIAL SCIENTIFIC

ASSET MANAGEMENT

Two Color Options	Instrument shall be available with a black or orange overmold case front
On-Screen Company Name, User, and Site	Instrument shall display an informational screen that provides the company name, user, and site
Alternative Color Logo Labels	Instrument shall have alternative color logo labels (blue, yellow, green) to facilitate instrument identification and management
Blank Labels	Instrument shall have a blank label to facilitate instrument identification and management

USERS & SITES

iAssign™ Technology	Instrument shall support near field communication (NFC) tags to allow for efficient user and site assignments
Last 5 Users	Instrument users shall be able to manually change user and site assignments through settings

CERTIFICATIONS

UL	Class I, Division 1, Groups A, B, C, and D, in the Temperature Class T4 Class II, Division 1, Groups E, F, and G, in the Temperature Class T4 Class I, Zone 0, AEx ia IIC, in the Temperature Class T4 Class I, Zone 1, AEx d ia II C, in the Temperature Class T4, with IR sensor
CSA	Class I, Division 1, Groups A, B, C, and D, in the Temperature Class T4 Class I, Zone 1, Ex d ia IIC, in the Temperature Class T4
ATEX	Equipment Group and Category II 1G, Ex ia IIC, with the protection category Ga, in the Temperature Class T4 Equipment Group and Category II 2G, Ex d ia IIC, with the protection category Gb, in the Temperature Class T4, with IR sensor
IECEx	Class I, Zone 0, Ex ia IIC, with the protection technique Ga, in the Temperature Class T4 Class I, Zone 1, Ex d ia IIC, with the protection technique Gb, in the Temperature Class T4, with IR sensor

INDUSTRIAL SCIENTIFIC

www.indsci.com/ventispro

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

EMEA
Phone: +33 (0)1 57 32 92 61
Fax: +33 (0)1 57 32 92 67
info@eu.indsci.com

5.