



MSA ORION[®]plus IR Detector

[Versatile and rugged; five gases with infrared]

Compact. Durable. Ingenious.



MSA ORION^{plus} IR Detector

[The advanced five-gas detector for the toughest requirements]

The new MSA ORION^{plus} is an innovative, highly-flexible, 1-5 gas infrared portable instrument for detecting the presence of oxygen, hydrogen sulfide, carbon monoxide, combustible gas and carbon dioxide.



This new detector can be used as a personal monitor for measuring and pre-entry checks, or after CO₂ extinguishing. Designed and built by MSA, the ORION^{plus} IR Detector provides incredible value in an extremely compact, convenient unit. Standard items include datalogging, a built-in sampling pump, and an easy-grip, durable case. Trust MSA for the ultimate in quality, performance and support with the new ORION^{plus} IR Detector.

Large, Easy-To-Read Graphic Display

The ORION^{plus} Detector features the largest fully-graphic LCD of its kind, with high-level contrast and bright, homogenous background lighting. Easy-to-read text size presents all data at a single glance for maximum work place concentration. Users can select alarm set-points on toxic sensors for STEL and TWA, along with oxygen deficiency and enrichment.



Datalogging Standard

Reliable IRDA communication reduces connection failures and annoying cables on your desk. Stored data and instrument settings can easily be accessed via ORION^{plus} LINK[®] software on your PC. Gases will be displayed simultaneously and alarm setpoints can be altered if desired.

Hazards

- Combustible Gas
- Oxygen Deficiency
- Hydrogen Sulfide
- Carbon Monoxide
- Carbon Dioxide

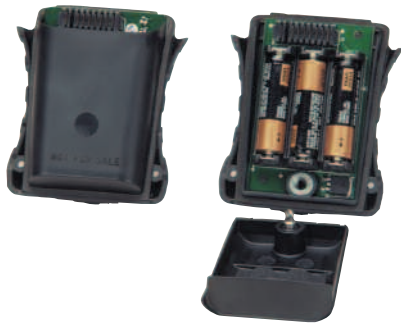
Applications

- Agriculture
- Chemicals
- Fire Service
- Utilities
- Telecommunications
- Hazardous Materials
- Oil and Gas
- Construction
- Municipal works
- Waste Water
- Civil and tunnel engineering
- Breweries and Wineries
- Marine



Carbon-Filled Nylon Case

The strong, carbon-filled plastic case provides optimal protection against RFI and corrosive gases. This durable case carries an IP54 rating and will stand up to some of the harshest environments.



Long-Life Battery

The ORION^{plus} Detector accommodates either a rechargeable NiMH battery pack or disposable alkaline batteries. Full battery recharging takes only three hours, with battery run time of approximately eleven hours. When used together, the interchangeable NiMH and alkaline battery packs allow for a run time long enough to cover double shifts.



Built-In Pump Standard

An integral, continuously running pump with electrical PermaCheck™ function is standard in the ORION^{plus} Detector. For remote sampling, a multi-filter system protects the pump and sensors from dust and water in harsh and rough environments.

Warranty

MSA offers an outstanding two-year warranty on the cases, sensors, electronics, and mechanical components.

Reliable Sensors

CO₂: newly developed infrared sensor; patent applied for temperature and humidity compensation.

O₂, CO and H₂S: electro-chemical sensors of proven MSA quality.

LEL: Patented MSA Series 20L catalytic sensors are silicon resistant with a measuring range of 0 to 100% LEL.



Intuitive Calibration

The ORION^{plus} autocalibration feature greatly simplifies calibration and reduces training needs. Adjustments are limited to the expected span gas range, which helps to prevent improper calibration. Standard calibration of the LEL sensor is for methane, propane or pentane, and can be conveniently executed with a single calibration gas cylinder.

Accessories

An extensive assortment of accessories is readily available for the ORION^{plus} Detector:

- Protective cases
- Replaceable and rechargeable batteries
- Sampling lines and probes
- Shock protection boots

are a few of these options.

MSA's ORION^{plus} IR Detector sets the standard with a compact and innovative, 5-gas infrared detector. For your gas detection needs, MSA delivers!

LEL (0-100% pentane)
O ₂ (0-25%)
CO (0-999 ppm)
H ₂ S (0-200 ppm)
IR CO ₂ (0-5%Vol)
Rechargeable NiMH Battery
Alkaline Battery Pack
Battery Charger
10 ft Sampling line
1 ft Sampling probe
Nylon belt clip
Black Rubber boot
34 L calibration gas & regulator
Orion plus Link and jet eye
Black PVC case
Instruction Manual

ATO Number

Orion Plus 'Deluxe kit'																	
5-Gas Instrument (CO ₂ , LEL,O ₂ , CO, H ₂ S)	10059117	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	A-ORIONPLUS-L1111-A0310-B2010
4-Gas Instrument (CO ₂ , LEL,O ₂ , H ₂ S)	10059118	●	●		●	●	●	●	●	●	●	●	●	●	●	●	A-ORIONPLUS-L1011-A0310-B2010
4-Gas Instrument (CO ₂ , LEL,O ₂ , CO)	10059119	●	●	●		●	●	●	●	●	●	●	●	●	●	●	A-ORIONPLUS-L1101-A0310-B2010
3-Gas instrument (CO ₂ , LEL,O ₂)	10059120	●	●			●	●	●	●	●	●	●	●	●	●	●	A-ORIONPLUS-L1001-A0310-B2010
Orion Plus 'Industrial kit'																	
5-Gas Instrument (CO ₂ , LEL,O ₂ , CO, H ₂ S)	10059141	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	A-ORIONPLUS-L1111-A0310-B0000
4-Gas Instrument (CO ₂ , LEL,O ₂ , H ₂ S)	10059142	●	●		●	●	●	●	●	●	●	●	●	●	●	●	A-ORIONPLUS-L1011-A0310-B0000
4-Gas Instrument (CO ₂ , LEL,O ₂ , CO)	10059143	●	●	●		●	●	●	●	●	●	●	●	●	●	●	A-ORIONPLUS-L1101-A0310-B0000
3-Gas instrument (CO ₂ , LEL,O ₂)	10059144	●	●			●	●	●	●	●	●	●	●	●	●	●	A-ORIONPLUS-L1001-A0310-B0000

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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