MSA

• Made by MSA... Over 90 years of experience

Reliable

- Standard internal pump with proven patented pump technology for accurate sampling
- Long run time for long or double shifts

Easy-to-use

- Password protected calibration access
- Large display for easy-to-read gas concentrations
- Bright alarm lights visible from all angles give superior warning
- Easy-to-change interchangeable NiMH or alkaline batteries for easy maintenance and flexibility
- Intuitive 3-button operation means simple training

Durable

- Weather and dust resistant design with an IP 54 rating to stand up to the toughest environments
- Passes a 6-foot drop test to withstand tough abuse in the field

Datalog Standard

Calibration records and stored data viewed quickly and easily

Orion® plus Multigas Detector Assemble-To-Order System and Pricing Guide



Kits/Approvals/Accessories and Replacement Parts

Approvals

The Orion Multigas Detector has been designed to meet intrinsic safety testing requirements in certain hazardous atmospheres. The Orion Multigas Detector has been approved by UL and cUL for use in Class I, Division I, Groups A, B, C, and D.

Carrying Attachments

Replacement Sensors	Part No.	Price
0 - 100 %LEL	10024247	\$204.00
0 - 25 % Vol. O ₂	10025940	\$153.00
0 - 999 ppm Carbon Monoxide (CO)	711306	\$204.00
0 - 200 ppm Hydrogen Sulphide (H ₂ S)	711307	\$204.00
0 - 30 ppm Hydrogen Cyanide (HCN)	10073949	\$387.60
0 - 10 ppm Chlorine (Cl ₂)	10073945	\$387.60
0 - 100 ppm Ammonia (NH ₃)	10073948	\$387.60
0 - 20 ppm Sulphur Dioxide (SO ₂)	10073944	\$387.60
0 - 20 ppm Nitrogen Dioxide (NO ₂)	10073947	\$387.60
0 - 1 ppm Chlorine Dioxide (ClO ₂)	10073951	\$402.90
0 - 5 ppm Phosphine (PH ₃)	10073952	\$402.90
IR Sensors	Part No.	Price
0 - 10 Vol.% Carbon Dioxyde (CO ₂)	10062209	\$765.00
0 - 50 Vol.% Carbon Dioxyde (CO ₂)	10070757	\$765.00
0 - 100 % LEL Propane (C ₃ H ₈)	10062208	\$765.00
0 - 100 % Vol Propane (C ₃ H ₈)	10062207	\$765.00
0 - 100 % Vol Methane (CH ₄)	10062205	\$765.00
0-25 % Vol Hydro carbon (Butane)	10062201	\$765.00
Danier Comple	David No.	Duine
Power Supply	Part No.	Price
NiMH battery with PCBA connector	10087243	\$311.10
Charger and Cradle	10073666	\$198.90
Upgrade Kit (Cradle, PCBA connector& Nut)	10073664	\$56.10
Alkaline Battery pack	10031092	\$249.90
Vehicle Battery Charger	Part No.	Price
Vehicle Battery Charger	10034276	\$280.50
Sample line	Part No.	Price
Sample line Customized 5 ft PTFE Line for Orion plus	10074535	\$73.44
Standard PU line, not connectable	10074333	φ/ J.44
with probe, price per ft	604018	\$3.72
with probe, price per it	004010	φ3.72
Sample probe	Part No.	Price
Customized 1 ft PTFE straight probe	497600	\$173.91

SWIVE DEIL FOOD	710302	φ100.00
Instrument Jacket	Part No.	Price
Black Rubber Boot	10022036	\$90.78
Leather Case	10020485	\$123.42
Codura Nylon Jacket Orange	10020486	\$64.26
Red Rubber Boot	10025665	\$90.78
Data Communication	Part No.	Price
IR Receiver (Jet Eye)	10082834	\$188.70
PC Software Orion Plus	10074833	\$35.70
Calibration Gas	Part No.	Price
34L, 300 ppm CO, 1.45% CH ₄ , 15% O ₂ ,		
10 ppm H ₂ S, 2.5% CO ₂ , N ₂ Balance	10058022	\$251.94
34L, 300 ppm CO, 1.45% CH4,		
15% O ₂ , 2.5% CO ₂ , N ₂ Balance	10058023	\$234.60
34L, 10 ppm HCN, N ₂ Balance	711072	\$337.62
58L, 10 ppm Cl ₂ , N ₂ Balance		
(to calibrate Cl ₂ sensor)	806740	\$449.82
34L, 2 ppm Cl ₂ , N ₂ Balance		
(to calibrate O ₃ /COCL ₂ /ClO ₂ sensor)	711082	\$337.62
34L, 25 ppm NH ₃ , N ₂ Balance	711078	\$337.62
34L, 10 ppm SO ₂ , air Balance	711070	\$151.98
34L, 10 ppm NO ₂ , air Balance	711068	\$225.42
34L, 0.5 ppm PH ₃ , N ₂ Balance	711088	\$364.14
58L, 50% Vol Methane, N ₂ Balance	10075804	\$178.50
58L, 100% Vol Methane	711014	\$184.62
100L, 0.6% Propane	493579	\$184.62
34L, 10% CO2 in N2	10081603	\$188.70
34L, 15% Butane in N2	10081604	\$202.98
34L, 15% Propane in N2	10081605	\$202.98
Dust & Water filter Orion Plus	Part No.	Price
PTFE Filter D25 (6pcs)	10064531	\$42.84
Maintenance Kit Orion Plus	10059098	\$47.94
Assembly Kit IR Sensor	10080043	\$49.98

Part No.

Price

Orionplus Kits

All kits are standard equipped with datalog, internal pump and comes with rechargeable battery pack, charger, protective rubber boot, PTFE sampling probe with 5ft line and software (p/n 655505 is needed to read data).

Part#	02	LEL	СО	H ₂ S	NH ₃	CI ₂	PH ₃	S0 ₂	Price	
10074944	Х	X	X		Х				\$2,631.00	
10074943	Х	Х	X			Х			\$2,631.00	
10074949	Х	Χ		Х	Х				\$2,631.00	
10074946	Х	Χ		Х		Χ			\$2,631.00	
10074951	Х	Χ			Х		Х		\$2,821.00	
10074950	Х	Χ		Х				Х	\$2,631.00	
10074945	Х	Х	X					Х	\$2,631.00	

Infra Red Versions

Part#	IR	02	LEL	CO	H ₂ S	Price
10074947	IR CO ₂ (0-10% Vol)	Х	Х	Х	Х	\$3,201.00
10074941	IR CH ₄ (0-100% Vol)	Х	Х	Х	Х	\$3,201.00
10074942	IR HC butane (0-25% Vol)	Х	Х	Х	Х	\$3,201.00

Prices above are suggested U.S. list prices only and may not apply in international markets. Prices subject to change without prior notification.

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the product 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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Offices and representatives worldwide



Orion® plus Multigas Detector Assemble-to-Order (ATO) Options

- To generate your instrument configuration, select instrument options and mark them in the boxes to the right.
- To generate your instrument price, write in the price for each option in the space provided to the right and add to the base price of \$1,152 below.

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A Combustible	Choose your sensor calibration with MSA's long-life 20L combustible sensor. Choose selection "L" for a pentane	Combustible Sensor without combustible sensor	Code O	Price \$0.00	Selection	
Sensor	calibration or "M" for a methane calibration. For no combustible sensor, enter a "0".	0 - 100 %LEL pentane (1.4 vol%)	L	\$200.00		\$
ח	To choose to have an oxygen sensor installed in your new	0 - 100 %LEL methane (5.0 vol%) Oxygen Sensor	M Code	\$200.00 Price	Selection	Price
B Oxygen	Orionplus IR Detector, choose selection 1. For no oxygen	without oxygen sensor	0	\$0.00		\$
Sensor	sensor, enter a "0".	0 - 25 % Vol. 0 ₂	1	\$170.00		
C Toxic 1	Choose your first toxic gas sensor from this extensive list to configure your new Orionplus IR Detector for your	Toxic 1 Sensor None	Code 0	Price \$0.00	Selection	\$
Sensor	application; for no toxic sensor, enter an "0".	0 - 999 ppm carbon monoxide (CO)	В	\$200.00		Ψ
		0 - 200 ppm hydrogen sulfide (H ₂ S) 0 - 30 ppm hydrogen cyanide (HCN)	C E	\$200.00 \$380.00		
		0 - 10 ppm chlorine (Cl ₂)	F	\$380.00		
		0 - 100 ppm ammonia (NH ₃) 0 - 20 ppm sulfur dioxide (SO ₂)	G H	\$380.00 \$380.00		
		0 - 20 ppm nitrogen dioxide (NO ₂)	1	\$380.00		
		0 - 1 ppm chlorine dioxide (ClO ₂) 0 - 5 ppm phosphine (PH ₃)	J K	\$390.00 \$390.00		
		о о рриг ризоришо (г из,		4000.00		
D	Choose your second toxic gas sensor from this list to	Toxic 2 Sensor	Code	Price	Selection	Price
Toxic 2	configure your new Orionplus IR Detector for your application; for no toxic sensor, enter an "0".	None	0	\$0.00		\$
Sensor	application, for no toxic sensor, enter all 0.	0 - 999 ppm carbon monoxide (CO) 0 - 200 ppm hydrogen sulfide (H ₂ S)	B C	\$200.00 \$200.00		
		0 - 30 ppm hydrogen cyanide (HCN)	E	\$380.00		
		0 - 10 ppm chlorine (Cl ₂) 0 - 100 ppm ammonia (NH ₃)	F G	\$380.00 \$380.00		
		0 - 20 ppm sulfur dioxide (SO ₂)	Н	\$380.00		
		0 - 20 ppm nitrogen dioxide (NO ₂)	I	\$380.00		
		0 - 1 ppm chlorine dioxide (ClO ₂) 0 - 5 ppm phosphine (PH ₃)	J K	\$390.00 \$390.00		
		·				
E	MSA offers a range of advanced IR options which will	IR Sensor	Code	Price	Selection	Price
Advanced IR	operate in the absence of background oxygen for inert applications. If your application require an IR sensor for %CO ₂	None 0 - 10 vol % carbon dioxide (CO ₂)	0 C	\$0.00 \$750.00		\$
Sensor	or inert %LEL, choose "H" for 0-100% vol methane. For general hydrocarbon monitoring (0-25% vol), choose "J".	0 - 50 vol % carbon dioxide (CO ₂)	D	\$750.00		
	When no IR sensor is required, enter an "0". Contact MSA for	0 - 100 % LEL propane (C ₃ H ₈)	E	\$750.00 \$750.00		
	other IR sensors options.	0 - 100 % vol propane (C ₃ H ₈) 0 - 100 % vol methane (CH ₄)	Н	\$750.00		
		0-25 % vol hydrocarbon (butane)	J	\$750.00		n :
F Power	You can choose between MSA's NiMH rechargeable batteries, or you can choose the convenience of alkaline	NiMH battery with PCBA & charger	Code A	Price \$255.00	Selection	Price
Supply	batteries. For ultimate flexibility, choose both!	with cradle Alkaline battery pack	В	\$210.00		4
		NiMH & alkaline pack (A&B)	С	\$465.00		
G Vahiala Battam	If you order your Orionplus IR Detector with a rechargeable battery pack, the charger is included in the price. If you want	Vehicle Battery Charger None	Code 0	Price \$0.00	Selection	Price
Vehicle Battery Charger	the optional vehicular charger adapter, choose selection "1".	Vehicle battery charger	1	\$219.00		\$
Н	MSA does not recommend sampling reactive gases; however if necessary, MSA's high-speed PTFE sampling	Sample Line	Code	Price	Selection	Price
Sample line	line is of the highest quality material, guaranteed to	None Customized 5' PTFE line for Orionplus	0	\$0.00 \$59.00		\$
	minimize altering of the sample concentration.	Sample Probe	Code	Price	Selection	Price
ı Sample	A 1' PTFE sampling probe with built-in water-stop filter ensures that your sampling system is not contaminated	None	0	\$0.00	Selection	\$
probe	with dirt and debris if the probe tip is dipped in water. You must order a probe if ordering a sampling line. We strongly	Sampling PTFE probe	1	\$140.00		Ψ
	recommend operating the instrument with this filter in place.					
J	While a high-strength, nylon clip is standard offered at no extra charge, a swivel belt loop kit allowing quick belt release	Carrying Attachments None	Code 0	Price \$0.00	Selection	Price
Carrying Attachments	with a half-turn is also available.	Swivel belt loop	1	\$87.00		\$
K	For environmental and rough handling protection, a variety of	Instrument Jacket	Code	Price	Selection	Price
Instrument	jackets and boots is available for your Orionplus IR Detector.	None Black rubber boot	0 B	\$0.00		\$
Jacket		Leather case	B L	\$75.00 \$95.00		
		Codura nylon jacket orange	С	\$49.00		
L	Use a minimal length (1-2 ") of the PU tubing to connect to your	Red rubber boot Calibration	R Code	\$75.00 Price	Selection	Price
Calibration	designated regulators for reactive gases to your instrument.	2 ft PU tubing	0	\$0.00		\$
M	To track readings and operation of your Orionplus IR Detector,	Data Communication	Code	Price	Selection	Price
Data	this unit is standard-equipped with datalogging and STEL/TWA capabilities. To conveniently track stored records, order the IR	None	0	\$0.00		\$
Communication	Receiver, as software comes standard with each unit.	IR receiver (JetEye)	Carl	\$180.00	Colordia	Drice
N Packaging	You can further protect your Orionplus IR Detector with optional carrying cases. For ease of transport and	Packaging Standard carton	Code 0	Price \$0.00	Selection	\$
	handling, these cases can be ordered to accommodate calibration accessories.	Economy plastic case	1	\$120.00		Ψ
		Hard plastic with space for 2 cylinders Red economy plastic	2 3	\$200.00 \$100.00		
		nou coondiny plastic	J	ψ100.00		

Your Model Part Number

Please write in numbers from selections above in appropriate boxes and contact your Safety Products Distributor to place your order.

Add Base \$1,152.00 Unit Price + Total Unit Price = \$ Selection ... A A-ORION plus-**All Pricing is in US Dollars**