

CONTROL PANEL FOR REMOTE GAS SENSORS & FIRE MONITORING

GASMASTER

FEATURES

- Large LCD provides simultaneous display of all channels and multi-lingual alarm & fault messages
- Modbus communications enables fast transfer of all data to SCADA/DCS systems via a two-wire link
- Event log function allows previous alarms and faults to be checked
- Monitored relay coils enhance the integrity of the product
- Configurable relays can be set to suit any site operating requirements
- Calibration Due warning informs when a service is due
- Full push-button operation with calibration and test functions performed using the keypad saves time



Gasmaster is the flexible and simple-to-use solution wherever you need a self-contained control panel to monitor gas or fire hazards. It combines extensive features and outstanding performance to suit all applications.

Gasmaster provides the information you need at a glance via the comprehensive display. All adjustments can be performed using the buttons on the front panel. Gasmaster can operate as stand-alone or interface with any alarm devices and control systems using a selection of outputs.

Gasmaster is available in three models:

- Gasmaster 1 for one gas detector or fire zone
- Gasmaster 4 for up to four gas detectors or fire zones
- Gasmaster FP certified Flameproof control system for up to four gas detectors or fire zones for use in Zone 1 or Zone 2 hazardous areas



CEA Instruments, Inc.

"EXPERTS IN TOXIC GAS DETECTION"

GASMASTER SPECIFICATIONS



Gasmaster 1



Gasmaster 4

Size	288h x 278w x 110d (mm)	Size	288h x 278w x 110d (mm)
Weight	4.5 Kg	Weight	4.5 Kg
Enclosure Material	Back-box: steel Front cover: fire-retardant ABS Plastic	Enclosure Material	Back-box: steel Front cover: fire-retardant ABS Plastic
Ingress Protection	IP54, IP66 optional	Ingress Protection	IP54, IP66 optional
Power	90-264VAC 50-60Hz or 20-30VDC, 65W max.	Power	90-264VAC 50-60Hz or 20-30VDC, 65W max.
Battery Back-up	1.2Ah batteries fitted internally	Battery Back-up	1.2Ah batteries fitted internally
Operating Temperature	-10°C to +50°C (14°F to 122°F)	Operating Temperature	-10°C to +50°C (14°F to 122°F)
Humidity	0 to 95% RH non-condensing	Humidity	0 to 95% RH non-condensing
Inputs:		Inputs:	
Gas	One 2 or 3 wire 4-20mA gas detector (sink or source) Adaptor for mV bridge type detectors available.	Gas	One to four 2 or 3 wire 4-20mA gas detectors (sink or source) Adaptor for mV bridge type detectors available.
Fire	One loop of up to 20 conventional smoke/heat detectors or manual call points, or one flame detector (4-20mA or digital contact signal)	Fire	One to four loops of up to 20 conventional smoke/heat detectors or manual call points, or one to four flame detectors (4-20mA digital contact signal)
Remote Inhibit	Via normally open contact	Remote Inhibit	Via normally open contact
Remote Reset	Via normally open contact	Remote Reset	Via normally open contact
Outputs:		Outputs:	
Relays (DPCO contacts rated 250VAC 8A (non-inductive load) Relays can be set as energized de-energized, latching or non-latching, latching acceptable)	Low alarm. High alarm. Fault. Alarm relays can be set for rising or falling alarms. Hysteresis can be adjusted on low alarms.	Relays (DPCO contacts rated 250VAC 8A (non-inductive load) Relays can be set as energized de-energized, latching or non-latching, latching acceptable)	Low and High alarms per channel plus Common Low, High and Fault. Alarm relays can be set for rising or falling alarms. Hysteresis can be adjusted on low alarms
Audible/Visual Alarm Drive	24VDC 650mA max. drive (typically 2 devices max.)	Audible/Visual Alarm Drive	24VDC 650mA max. drive (typically 2 devices max.)
Analogue	4-20mA (current source, max. loop resistance 700N) or 1-5VDC (min. load 50 KN)	Analogue	4-20mA for each channel (current source, max. loop resistance 700N) or 1-5VDC (min. load 50 KN)
Digital Communications	RS-485 Modbus RTU for monitoring and control via DCS/SCADA/PLC systems	Digital Communications	RS-485 Modbus RTU for monitoring and control via DCS/SCADA/PLC systems.
Communications Port ¹	For PC configuration and event log upload	Communications Port ¹	For PC configuration and event log upload
Event Logging ¹	Time-stamped log of up to 300 alarm, fault or system intervention activities	Event Logging ¹	Time-stamped log of up to 300 alarm, fault or system intervention activities
Panel Indication	LCD back-lit display shows gas level (in ppm, % volume or % LEL), and scrolling alpha-numeric status indication. LED's for Alarm, Fault, Power and Warning. Integral 85dB sounder	Panel Indication	LCD back-lit display shows gas level (in ppm, % volume or % LEL), for all channels and scrolling alpha-numeric status indication. LED's for Alarm, Fault, Power & Warning. Integral 85dB sounder
Approvals	EN 50270 (EMC) EN 61010-1 (Low voltage directive)	Approvals	EN 50270 (EMC) EN 61010-1 (Low voltage directive)

¹ Event log access requires optional Communications Kit and communications port

(Specifications subject to change without notice.)



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GASMASTER PRICE LIST

Wall mounted IP54 control unit with simultaneous LCD display for up to four gas detectors, fire zones (up to 20 heat/smoke detectors or call points per zone), flame detectors, or ESU sampling units. Features RS-485 Modbus communications for DCS/PLC/SCADA connection, event logging, dedicated drives for one or two 24VDC audible/visual alarms, low and high alarm relays and 4-20mA or 1-5VDC analogue outputs per channel, as well as common alarms and fault. All relays are rated 8A, 250VAC (non-inductive). Gasmaster operates from 90-264V AC and has 1.2Ah back up batteries fitted as standard. Language options available are English, Dutch, Spanish, German, or Italian. Other languages may be made available on request.

Accessory Enclosure is required to connect any 3-wire mV bridge catalytic sensor (non 4/20mA device)

Part #	Description	Price
C01906	Gasmaster 1 single channel unit	\$ 1235.00
C01931	Gasmaster 1 with Accessory Enclosure connector (required if an Accessory Enclosure is to be used)	\$ 1380.00
C01928	Gasmaster 1 with Communications Port (required for Gasmaster PC connection and event log upload)	\$ 1325.00
C01933	Gasmaster 1 with Accessory Enclosure connector and Communications Port	\$ 1470.00
C01889	Gasmaster 4 one to four channel unit	\$ 2215.00
C01930	Gasmaster 4 with Accessory Enclosure connector (required if an Accessory Enclosure is to be used)	\$ 2365.00
C01927	Gasmaster 4 with Communications Port (required for Gasmaster PC connection and event log upload)	\$ 2305.00
C01934	Gasmaster 4 with Accessory Enclosure connector and Communications Port	\$ 2450.00

To calculate a complete system price, add the remote detectors and alarm units as necessary.

Gasmaster Accessories

Accessory Enclosure is required to connect any 3-wire mV bridge flammable gas detectors (non 4/20mA device). Supplied with 0.75 meter lead and a connector loom for Gasmaster.

Part #	Description	Price
C01919	For one detector	\$ 283.00
C01920	For two detectors	\$ 424.00
C01921	For three detectors	\$ 573.00
C01922	For four detectors	\$ 714.00
E07632	Accessory Enclosure connector (for Gasmaster systems ordered without this already fitted).	\$ 207.00
C01929	PC communications kit (required for event log). Includes software, RS-485/232 converter and leads.	\$ 430.00
E07635	Communications port (for Gasmaster systems ordered without this already fitted).	\$ 78.00
C01954	Auxiliary power unit for 24VDC extended back up. (Specify 110 VAC or 230 VAC)	\$ 1365.00
M01861	Steel brackets for panel-mounting Gasmaster	\$ 153.00
M01255	Gasmaster IP56 ABS enclosure - 400 x 400 x 200 mm	\$ 579.00
S011894	Gasmaster IP66 (NEMA 4X) ABS enclosure - 400 x 400 x 200 mm - No Window	\$ 556.00
XCE121804-N-4 MOD	NEMA 7 Explosion Proof Enclosure for Gasmaster UL and cUL Class 1, Div 1, 3/4" NPT	\$ 4250.00
C011034	Auxiliary power unit provides 24 VDC for extended back-up. Includes 2 x 12 V 7Ah Batteries, 110 VAC.	\$ 1365.00



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Gasmaster Spare Parts

Part #	Description	Price
E01875	Battery - 1.2Ah, 2 required for a Gasmaster system	\$ 44.00
E07534	Battery fuse assembly	\$ 25.00
M07624	Installation, operating and maintenance manual	\$ 23.00
M05897	Service card (for inside of front cover, price per 10)	\$ 13.00
S011215/2	Display PCB (for all Gasmaster models)	\$ 663.00
S011713/2	Gasmaster 4 terminal PCB (no jumper links supplied)	\$ 567.00
E07109	Insulated jumper links (price is for 10)	\$ 4.00
S011746	Power supply assembly (complete with wiring looms)	\$ 278.00
S011723	Sounder assembly (complete with wiring loom)	\$ 60.00
M04683	Sounder seal	\$ 1.00
M05891	Gasmaster 4 display label (blue label with buttons)	\$ 48.00
M05892	Domed Crowcon label (for all Gasmaster models)	\$ 8.50
M05893	Domed Gasmaster label (for Gasmaster 1 and Gasmaster 4)	\$ 8.50
S011750	Front cover assembly for Gasmaster 1 (complete with labels, sounder and seals)	\$ 126.00
S011555	Front cover assembly for Gasmaster 4 (complete with labels, sounder and seals)	\$ 126.00