

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)	288h x 278w x 110d (mm)
Weight	4.5 Kg	4.5 Kg
Enclosure Material	Back-box: steel Front cover: fire-retardant ABS Plastic	Back-box: steel Front cover: fire-retardant ABS Plastic
Ingress Protection	IP54, IP66 optional	IP54, IP66 optional
Power	90-264VAC 50-60Hz or 20-30VDC, 65W max.	90-264VAC 50-60Hz or 20-30VDC, 65W max.
Battery Back-up	1.2Ah batteries fitted internally	1.2Ah batteries fitted internally
Operating Temperature	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)
Humidity	0 to 95% RH non-condensing	0 to 95% RH non-condensing
Inputs:		
Gas	One 2 or 3 wire 4-20mA gas detector (sink or source) Adaptor for mV bridge type detectors available.	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)	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	Via normally open contact
Remote Reset	Via normally open contact	Via normally open contact
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.	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.)	24VDC 650mA max. drive (typically 2 devices max.)
Analogue	4-20mA (current source, max. loop resistance 700N) or 1-5VDC (min. load 50 KN)	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	RS-485 Modbus RTU for monitoring and control via DCS/SCADA/PLC systems.
Communications Port ¹	For PC configuration and event log upload	For PC configuration and event log upload
Event Logging ¹	Time-stamped log of up to 300 alarm, fault or system intervention activities	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	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)	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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