

# MM5001™

## GAS SAMPLING SYSTEM

MM5001™ is a major technical leap forward in gas detection technology. The system comprises of a central control cabinet with a touch screen panel that displays gas concentrations and alarm status. At the heart of the system is the main PLC controller, gas analyser and a pre-sampling circuit. A calibration-free, high performance infra-red sensor provides the ultimate in reliable flammable gas analysis.

MM5001™ is fully compliant with IACS UR F43, Exxon MOBIL MESC 2002 term charter, Chapter 8.

- ① CALIBRATION-FREE, INFRA-RED GAS SENSORS
- ① FAIL-SAFE PLC CONTROL SYSTEM
- ① PROGRAMMABLE OPERATION DURING BALLASTING
- ① UP TO 48 MEASURING POINTS PER CABINET
- ① ROBUST FLOW FAIL DETECTION SYSTEM
- ① AUTOMATIC SELF CLEANING OF SAMPLE LINES
- ① PRE SAMPLING PURGE REDUCES SAMPLE TIMES



# SPECIFICATIONS

## MM5001™ CONTROL PANEL

<b>Sample Points</b>	1~48 sample points per system, plus up to 16 fixed point sensor	<b>Internal Power Supply</b>	24V dc. @ 5A
<b>Sampling time</b>	Adjustable with integral pre-sampling to maximise cycle time efficiency	<b>Audible Alarm</b>	- 98dB @ 38cm
<b>Measurement</b>	Flammable gas – 0-100% LEL, 0-100% V/V, Oxygen gas – 0-25%VOL H2S 0-50ppm, CO plus other gases	<b>Dimensions</b>	H 1000 x W 800 x D 400mm
<b>Power Supply</b>	110/ 230Vac 50/60Hz @ 5A	<b>Weight</b>	99kg approximately
<b>Power Consumption</b>	100W (alarm condition)	<b>Finish</b>	Epoxy coated steel RAL 7035
<b>LED Indicators</b>	L1 low alarm, L2 high alarm, system fault, flow fail, system running, main power and standby power	<b>Ingress Protection</b>	IP55
<b>User Interface</b>	3.8" touchscreen with 6 user keys for: alarm, menu, hold, skip, home and mute	<b>Fixing Details</b>	Wall mount - 4 x M8 suitable fasteners
<b>Alarm Settings</b>	Each point is fully adjustable between zero & full scale	<b>Sample Lines</b>	Material - stainless steel, cupro nickel, brass or copper. Typical size: 10mm OD / 8mm ID, 8mm OD / 6mm ID
<b>Relay Outputs</b>	Sensor 1 L1, L2 & L3 gas alarms Sensor 2 L1, L2 & L3 gas alarms Sensor 3 L1, L2 & L3 gas alarms Sensor 4 L1, L2 & L3 gas alarms Common gas Flow fail Power fail Cabinet gas System fault All contacts rated 230V ac. @ 5A	<b>Sample Particulate Filter</b>	Optional in-line or end of line filters
		<b>Sample Vent</b>	12mm/ 10mm compression fitting + flame arrestor
		<b>Sample Line Blowback</b>	Optional facility with fixed/ adjustable controls
		<b>Pump</b>	High reliability double headed Vacuum Diaphragm pump
		<b>Operating Temperature</b>	-40°C to +70°C
		<b>Response Time</b>	Typically <20 seconds

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