

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.

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



'We will excel, innovate and be remarkable to lead our market sector'



SPECIFICATIONS

MM5001[®] CONTROL PANEL

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

