

MM5001

FIXED GAS DETECTION SYSTEM



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

TECHNICAL SPECIFICATIONS

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:	110/230V ac 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 and full scale
INTERNAL POWER SUPPLY:	24V dc @ 5A
AUDIBLE ALARM:	– 98dB @ 38cm
DIMENSIONS:	1000mm (H) x 800mm (W) x 400mm (D)
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 and flame arrestor
SAMPLE LINE BLOWBACK:	Optional facility with fixed/adjustable controls
PUMP:	High reliability double headed vacuum diaphragm pump
OPERATING TEMPERATURE:	-40°C to +70°C
RESPONSE TIME:	Typically < 20 seconds
RELAY OUTPUTS:	Sensor 1 L1, L2 and L3 gas alarms Sensor 2 L1, L2 and L3 gas alarms Sensor 3 L1, L2 and L3 gas alarms Sensor 4 L1, L2 and L3 gas alarms Common gas Flow fail Power fail Cabinet gas System fault All contacts rated 230V ac @ 5A