

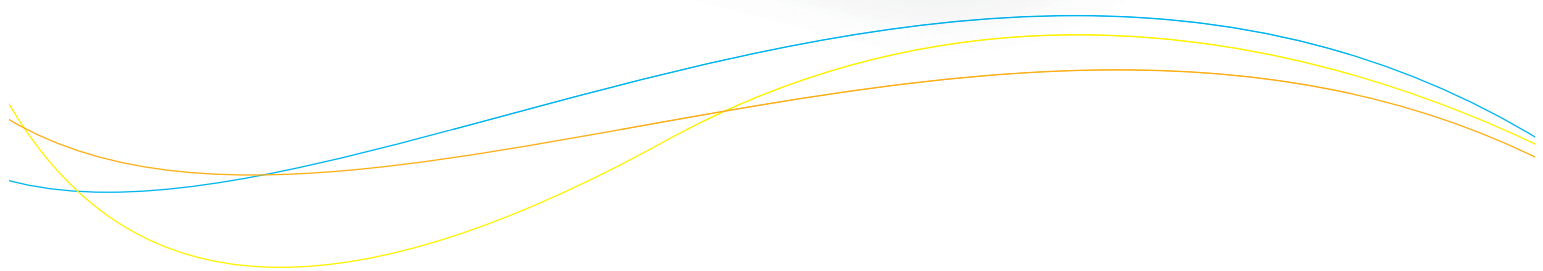
MM5001™

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 MES-C 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



MM5001™

Specifications

MM5001™ Control Panel

Sample Points	<ul style="list-style-type: none"> 1-48 sample points per system, plus up to 16 fixed point sensor
Sampling Time	<ul style="list-style-type: none"> Adjustable with integral pre-sampling to maximise cycle time efficiency
Measurement	<ul style="list-style-type: none"> Flammable gas – 0-100% LEL 0-100% V/V, Oxygen gas – 0-25% VOL H2S 0-50ppm, CO plus other gases
Power Supply	<ul style="list-style-type: none"> 110/230V ac 50/60Hz @ 5A
Power Consumption	<ul style="list-style-type: none"> 100W (alarm condition)
LED Indicators	<ul style="list-style-type: none"> L1 low alarm, L2 high alarm, system fault, flow fail, system running, main power and standby power
User Interface	<ul style="list-style-type: none"> 3.8" touchscreen with 6 user keys for: alarm, menu, hold, skip, home and mute
Alarm Settings	<ul style="list-style-type: none"> Each point is fully adjustable between zero and full scale
Relay Outputs	<ul style="list-style-type: none"> 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

Internal Power Supply	<ul style="list-style-type: none"> 24V dc @ 5A
Audible Alarm	<ul style="list-style-type: none"> - 98dB @ 38cm
Dimensions	<ul style="list-style-type: none"> 1000mm (H) x 800mm (W) x 400mm (D)
Weight	<ul style="list-style-type: none"> 99kg approximately
Finish	<ul style="list-style-type: none"> Epoxy coated steel RAL 7035
Ingress Protection	<ul style="list-style-type: none"> IP55
Fixing Details	<ul style="list-style-type: none"> Wall mount – 4 x M8 suitable fasteners
Sample Lines	<ul style="list-style-type: none"> Material – stainless steel, cupro nickel, brass or copper. Typical size: 10mm OD / 8mm ID, 8mm OD / 6mm ID
Sample Particulate Filter	<ul style="list-style-type: none"> Optional in-line or end of line filters
Sample Vent	<ul style="list-style-type: none"> 12mm/10mm compression fitting and flame arrestor
Sample Line Blowback	<ul style="list-style-type: none"> Optional facility with fixed/adjustable controls
Pump	<ul style="list-style-type: none"> High reliability double headed vacuum diaphragm pump
Operating Temperature	<ul style="list-style-type: none"> -40°C to +70°C
Response Time	<ul style="list-style-type: none"> Typically < 20 seconds