

SENTRY™

CARGO TANK PRESSURE MONITORING SYSTEM

The SENTRY™ is a cargo tank pressure monitoring system designed in compliance with IMO Regulation 59/ SOLAS Regulation 11 6.3.2, providing early warning of under/over pressurisation in tankships. MM200™ intrinsically safe 316SS absolute pressure transducers continually monitor tank pressure and offer excellent durability and long-term stability.

The extremely compact MM3000™ control and alarm system provides indication of the measured pressure in each tank, and generates audio and visual alarms.

- ④ STAINLESS STEEL / WEATHERPROOF SENSORS
- ④ EXTREMELY COMPACT CONTROLLER
- ④ PRE-CALIBRATED SENSORS
- ④ EXCELLENT LONG TERM STABILITY
- ④ INSTANT RESPONSE
- ④ INTRINSICALLY SAFE
- ④ COMPLIANCE WITH IMO REG 59
- ④ WORLDWIDE SERVICE BACK-UP
- ④ COST EFFECTIVE SOLUTION
- ④ CE APPROVED



SPECIFICATIONS

MM200™ PRESSURE SENSORS

Material	316SS	Connection Thread	1/2 inch BSP parallel male, optional adaptors
Pressure range	-1000 to +3000mm Wg	Cable Type	2-core min 0.75mm 2 per conductor, screened
Max working pressure	20,400mm Wg (2 bar)	Certification	EEx i a IIC T6 with appropriate safety barrier
Operating temperature	-30°C to +105°C		
Output	4-20mA, linearity deviation $\lt; \pm 0.25\% \text{ of span}$		
Long Term Stability	$\lt; 0.2\% \text{ of span}$		
Ingress Protection	IP65, IP67 with Martek 'top hat' assembly		

MM3000™ CONTROL PANEL

Enclosure	IP54	Power Supply	24V dc
Inputs	Up to 24No. analogue transmitters	Environmental	-20°C to +70°C, 0-95%RH
Indicators	2 row 16 character alphanumeric backlit LCD 24No. Red alarm LED'S	Vibration Tested	$\pm 1 \text{ g}$ according to IEC 68-2-6
User interface	16 key membrane keypad	Cable Entry	Rear
Alarms	48No. with programmable input reference	Dimensions	144 (H) x 144 (W) x 70mm (D) 138mm x 138mm cut-out
Alarm Annunciation	Flashing LED for new alarm, Steady on acknowledge	Fixing Detail	Fascia/console mounting with supplied fasteners
Alarm Delay	Programmable - 300ms to 10 days	Weight	0.8kg
Outputs	Up to 14No. DPCO relays rated 5A at 240V ac	Options	Battery back-up, remote alarms

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