

MINIATURE TANK LEVEL MONITOR

LEVEL AND CONTENTS INDICATION

PROCESS AND STORAGE VESSEL DUTIES

DIGITAL LINEARISATION OF VESSEL SHAPE

DIGITAL ENGINEERING UNIT DISPLAY

ISOLATED DC POWER TO FIELD TRANSMITTER

ALARM OR CONTROL RELAY OUTPUT



OPTIONS:- VERTICAL BAR GRAPH & DIGITS OR HORIZONTAL DIGITS ONLY

Designed to utilise microprocessor techniques to provide accurate reliable indication of level when used with Measurement Resources or propriety field mounted transmitter. The monitor provides:

- 5 Digit LED Display
- DC Power to field transmitter
- Isolated 4-20mA or 0-10 Volt Retransmission Output
- Programmable Relays for Alarm/Control
- Display Vertical Bar Graph OR Horizontal larger digits only
- RS232/RS485 Output Option
- Function Keys for Calibration

MM Series is a dedicated monitor, which is permanently hard wired to a tank/vessel mounted level transmitter from which it computes mass head or volume for any shape, displaying this digitally in engineering units and vertical bar graph. An alternative version the 6E provides horizontal 6 digit display without bar graph. The monitors 92mm x 45mm DIN size for suitable for high density or single unit panel mounting in an indoor environment protected from water. To provide easily read constant level indication and contents in engineering units.

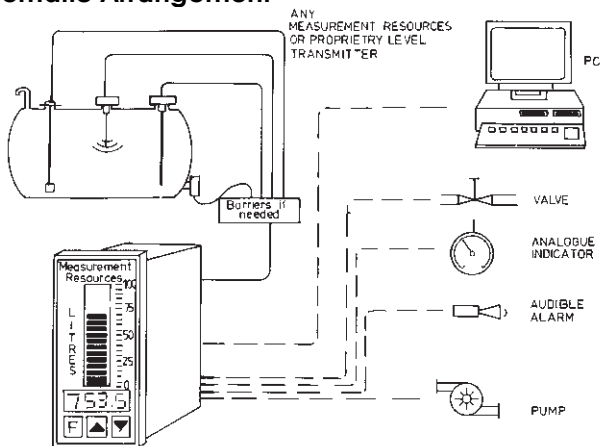
All calibration data, output scaling, and switch settings are factory configured and in a nonvolatile memory. If required the monitor can be site configured with data entry via front panel function push buttons and internal switches. Typical applications include fuel and water compartments in marine application. Stock management of tank farms and warehouses, hydrocarbons chemical, beverage and pharmaceutical storage tanks and process vessels. Full electrical isolation between input/output/power supply make for easy interface with other systems, PLC, BMS, etc.

Specifications

Input 4-20mA	Relay Output 2 relay std	Sample Rate 10 Hz	Analogue Output 4-20mA
Linearising Up to 32 points	Bezel Size 96 x 48	Ambient Temperature 0 - 50 Deg	Power Output to Transmitter 24VDC
Accuracy 0.0001% of reading	Case Size 48 x 96 x 117mm	Panel Cut Out 92 x 45mm	Power Supply Input to Monitor 85-260V AC 10 - 72VDC
Conversion Dual slope A/D	Display 51 Segment Vertical Bar Graph OR Horizontal six 14mm Digits. Alarm Indication lamps on both monitors		
Humidity 5 to 95 % not condensing			
Power Consumption 5W max			

CODE	MOUNTING ARRANGEMENT				
MM	Panel Mounting				
	CODE	APPLICATION			
	WS	with an RS232 or RS485 serial port + cable			
	WO	No serial port			
		CODE	POWER SUPPLY		
		AC	85-260V AC powered		
		DC	10-72V DC powered		
			CODE	DISPLAY	
			6E	4-20mA input, 6-digit 14mm LED display, 5-button keypad + 6 alarm LEDs	
			5BP	4-20mA input, 5-digit 8mm LED display, 3-button keypad, 51-segment bar-graph + alarm LEDs	
				CODE	OPTIONS
				R2	2 relays + 24V DC excitation
				R4	4 x 5A relays + excitation
				R6	6 x 5A relays + excitation
				R2A	2 x 5A relays + excitation + analogue output (4-20mA/0-10V)
				R4A	4 x 5A relays + excitation + analogue output (4-20mA/0-10V)
				R6A	6 x 5A relays + excitation + analogue output (4-20mA/0-10V)
MM	WO	AC	5BP	R2	TYPICAL ORDER CODE

Schematic Arrangement



Typical Tank Farm Monitoring Panel



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