

## TRANSEND TANK CONTENTS MEASUREMENT SYSTEM

The Bayham Transend Tank Contents Measurement System comprises a tank sensor and a control unit.

The tank sensor measures the static pressure of the fluid within the tank; which is proportional to the fluid level. An electrical signal is generated by the sensor and transmitted to the control unit.

The control unit has fully scaleable calibration controls which allows adjustment to match the tank dimensions and the density a specific fluid. Two voltage outputs are provided to drive remote indicators and additional Bayham Level Switch Control Modules. An adjustable 4-20 mA output signal is also available for monitoring by other systems such as a BMS or PLC. In addition, two relay outputs provide signals for level alarms or pump control. These can be independently set for high or low level initiation.

Two types of sensor are available:

- Type SM for external side mounting near the base of the tank.
- Type FM for top mounting with the sensor submerged in the fluid. The length of the flexible vented cable attached to this sensor can be adjusted to suit the application and tank size.

Both sensor types can be supplied with intrinsically safe approval for use in flammable atmospheres. Additional safety barriers are required with this option.

Two types of control unit are also available:

- A control module for panel mounting with two adjustable level alarm relay outputs plus current and voltage signal transmission.
- A control box for wall mounting with the same features as the control module and an integral local indicator. The control box can also be supplied with a larger enclosure with an additional integral high level audible alarm.

### Applications:

- Continuous Measurement of Level or Contents for Tanks Vented to Atmosphere
- Vertical Cylindrical Tanks
- Tanks with Internal Cross Bracing

### Features:

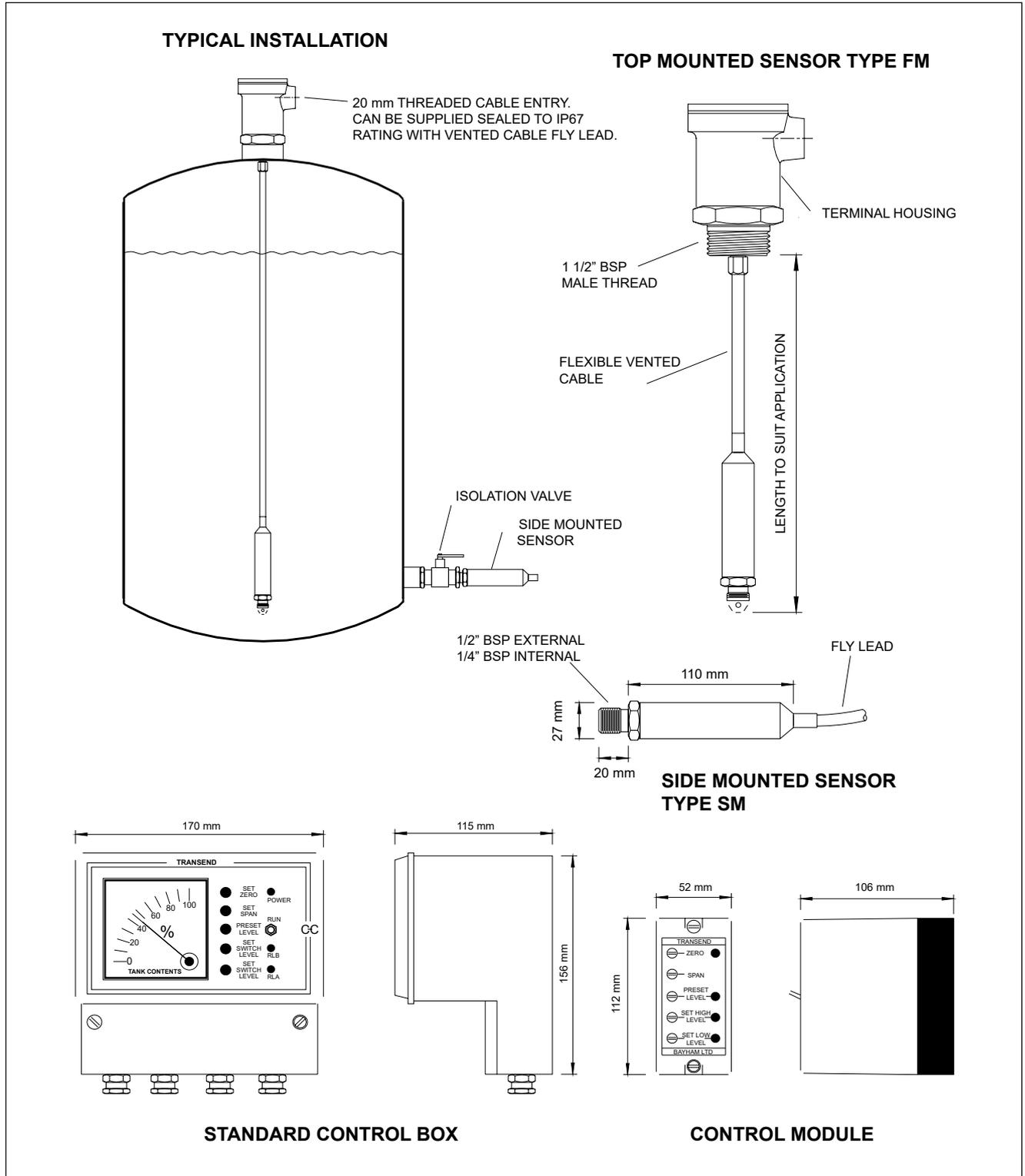
- Display of Contents in % or Engineering Units
- Level Alarm Relay Outputs
- Current and Voltage Transmission
- Version with Integral Audible Overfill Alarm
- Optional IS Sensor for Flammable Atmospheres



### Technical Specifications

Control Box for Wall Mounting		Control Module for Panel Mounting	
Power Supply	110/240 50 Hz	Power Supply	24 VDC
Relays	2 x SPCO 240 VAC 5A	Relays	2 x SPCO 240 VAC 5A
Voltage Outputs	2 x 0-6 VDC	Voltage Outputs	2 x 0-6 VDC
Current Output	4-20 mA	Current Output	4-20 mA
Indicator	DIN 72 Size	Indicator	Not fitted
Operating Temperature	0-40 Deg C	Operating Temperature	0-40 Deg C
Environmental Protection	IP55	Environmental Protection	IP40
Minimum Span (water)	0-1.25 m (0-125 mbar)	Minimum Span (water)	0-1.25 m (0-125 mbar)
Maximum Span (water)	0-5 m (0-500 mbar)	Maximum Span (water)	0-5 m (0-500 mbar)
Typical System Accuracy	+/- 1.5% FSD	Typical System Accuracy	+/- 1.5% FSD

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Bayham manufacture and supply liquid measurement systems and gauges for a wide range of markets and applications. Please feel free to contact us for further information or guidance on specifying the correct solution to suit your exact requirements.