

BAYHAM

REMOTE READING TANK CONTENTS GAUGES

Features:

- Available in 2 Versions:
- **Minisend** for tanks up to 1.2 m high
- **Baysend** for tanks up to 4.5 m high
- Continuous Local and Remote Contents Indication with Level Alarm and Pump Control Switches
- Choice of Dial Sizes

Applications:

- Oil / Water Storage Tanks
- Diesel Oil Service Tank Level Control
- Under Ground Tanks
- Fill Point Contents Indication and Over-Fill Alarm

Function

The Baysend and Minisend gauges are simple float operated devices fitted with precision potentiometers to enable remote monitoring. A separate power unit is provided to measure the rotation of the potentiometer and transmit a scalable voltage or current signal to a remote indicator or data acquisition / control system. The local dial may be calibrated in Fractions, Percentage, Litres, m³ or any other standard engineering units. Dial sizes available are 50, 100, 150 and 250 mm diameter depending on gauge type. Versions for hazardous areas are available.

Operation

As the liquid level in the tank changes the float arm moves vertically through an arc. This displacement is transferred via gears to a rotating drive magnet located in a pocket behind the gauge mounting flange. A second magnet located inside the gauge body follows the drive magnet, rotating the potentiometer shaft and pointer. This mechanism prevents fluid leakage into the gauge and allows adjustment or maintenance to be carried out without the need to drain the tank. End of travel float arm stops are fitted to ensure that the float does not come into contact with the inside of the tank.

Up to 2 micro switches can be fitted onto the same shaft as the potentiometer to provide integral level alarms. Remote alarm and pump control modules are also available to provide adjustable multi-level control facility. The Minisend gauge is fitted with the B9 size mounting flange and the Baysend with either the B15 or B23 depending on tank depth. Other flange types are available on request.

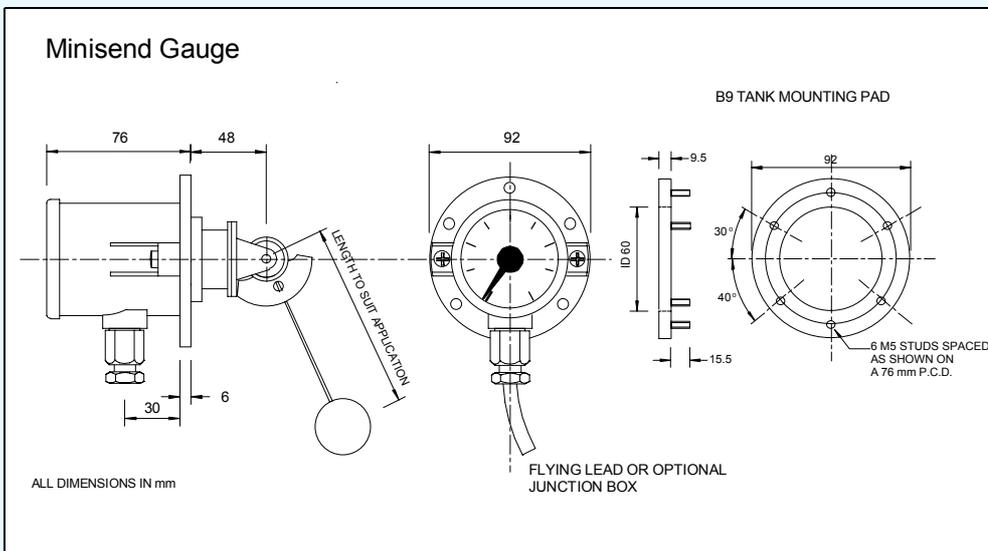
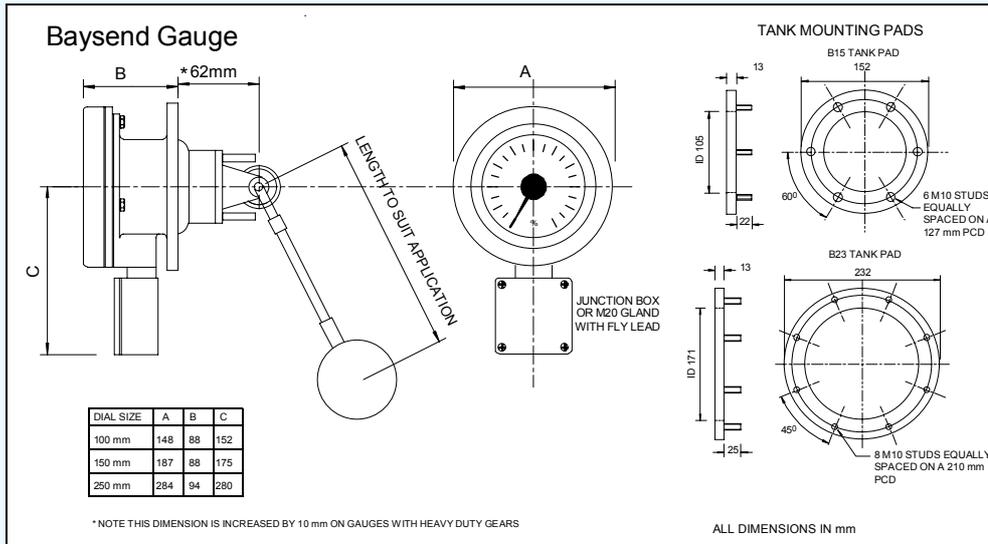
Please see separate data sheets for details of remote indicators and control units.

Technical Specifications

Gauge housing:	Minisend-Nylon / Baysend-Polyester Coated Aluminium
Flange:	Zinc Alloy, Aluminium, Gunmetal or Stainless Steel
Gears:	16/40 or 11/40 ratio in Brass or Stainless Steel
Floats:	Plastic, Copper, Doped Cork or Stainless Steel
Maximum float arm angle:	120 degrees
Maximum pointer movement:	300 degrees
Pressure rating:	Dependant on flange type
Temperature rating:	80 °C standard, high temperature versions are available
Output:	1000 Ohm Potentiometer or 4-20mA loop powered
Micro switch contact rating:	250 VAC 4 A Resistive
Weather protection:	In accordance with IP56, IP67 version available without dial

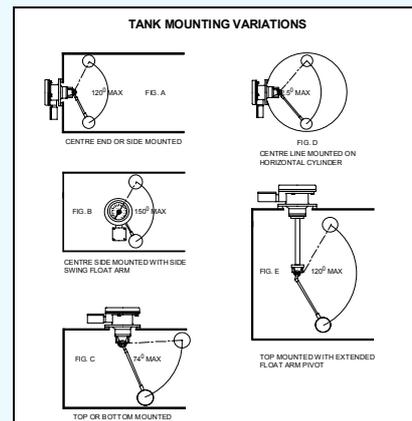


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Information required:

1. Gauge Type:
2. Dial Size
3. Tank Dimensions
4. Baffle/Stay Details-if fitted
5. Mounting Position of Gauge
6. Fluid Details
7. Operating Conditions
8. Dial Calibration Units i.e. fractions, %, litres, etc.
9. Whether Static or Mobile application
10. Tank Slope Angle, if any
11. Details of Switching Levels if required



Please contact our sales department for tank pad mounting instructions. Tank pads are available from stock and may be shipped within 24 hours if required.

We have many years of experience manufacturing tank gauges for a wide variety of applications. Please contact us for further information or guidance on specifying the correct gauge to suit your requirements.

R&G

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