

## REMOTE READING TANK CONTENTS GAUGES

The Bayham Baysend and Minisend gauges are 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, m<sup>3</sup> or any other standard engineering units. Dial sizes are 50, 100, 150 and 250 mm diameter depending on gauge type. Versions for hazardous areas are available.

Vertical displacement of the float arm 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.

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.

### Applications

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

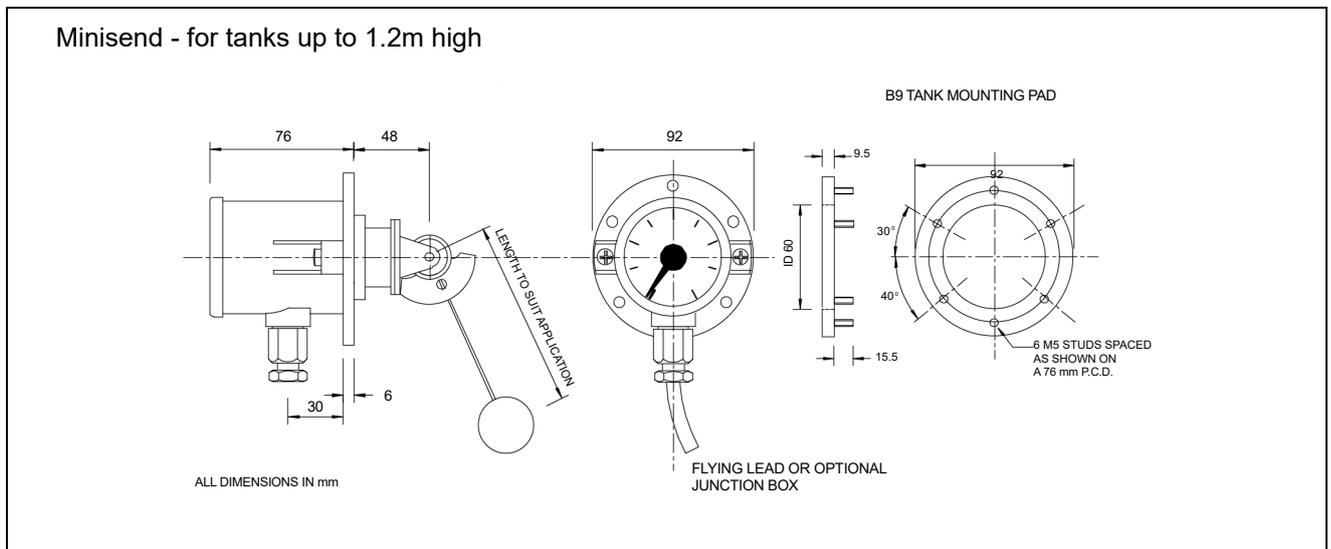
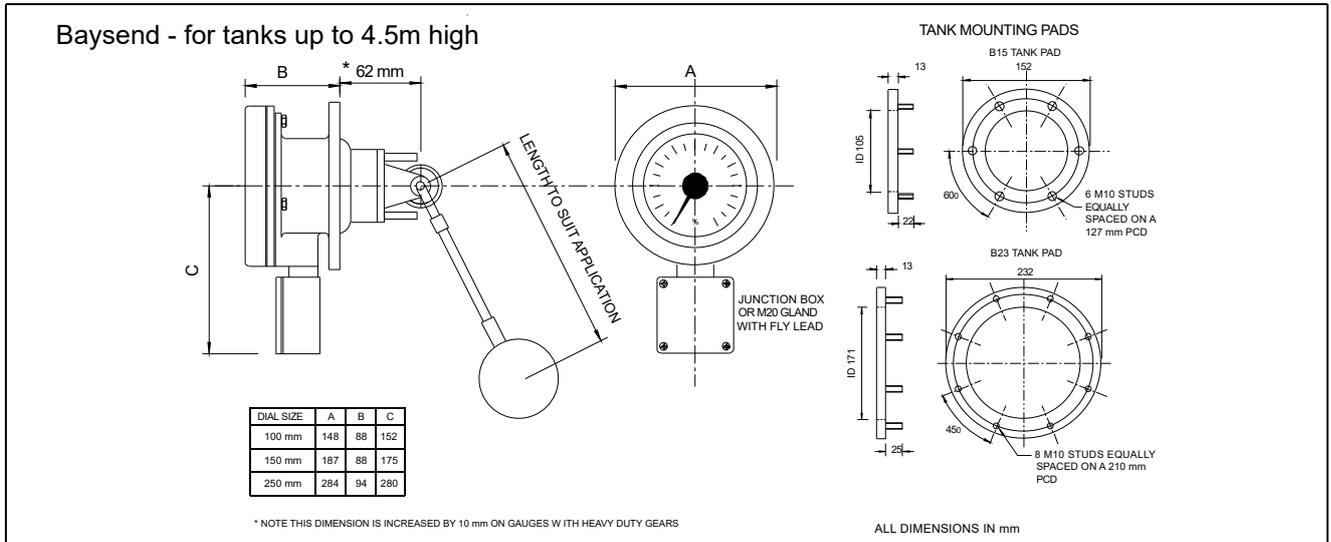
### Features

- Continuous Local and Remote Contents Indication with Level Alarm and Pump Control Switches
- Dial sizes from 50mm to 250mm
- Standard and Custom versions available
- Leak Proof

### Technical Specifications

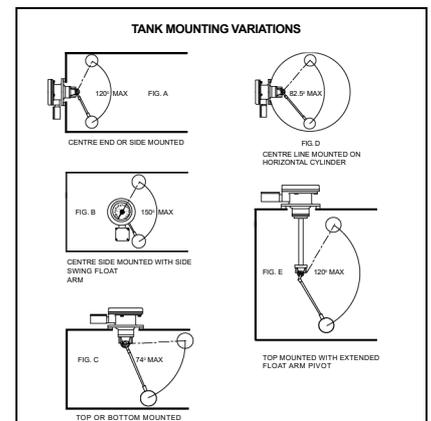
Gauge housing:	Minisend-Nylon / Baysend-Polyester Coated Aluminium
Flange:	Zinc Alloy, Aluminium, Gunmetal or Stainless Steel
Gears:	16/40 or 11/40 ratio in Brass or Stainless Steel
Floats:	Plastic, Copper, Doped Cork or Stainless Steel
Maximum float arm angle:	120 degrees
Maximum pointer movement:	300 degrees
Pressure rating:	Dependant on flange type
Temperature rating:	80 oC 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

## REMOTE READING TANK CONTENTS GAUGES



### Information required when specifying:

1. Gauge Type & Dial Size
2. Tank Dimensions
3. Mounting Position of Gauge
4. Fluid Details
5. Operating Conditions
6. Dial Calibration Units i.e. fractions, %, litres, etc.
7. Application - Static or Mobile
8. Tank Slope Angle (if applicable)
9. Baffle/Stay details (if applicable)
10. Details of Switching Levels if required



Tank mounting pads suitable for welding on to steel tanks are available from stock pre-fitted with studs, nuts and washers. If required, please contact us for tank mounting pad instructions.

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