

BAYHAM

TYPE 2050 TANK CONTENTS GAUGE

Features:

Compact design
Continuous contents indication
Easy to install
Suitable for tanks up to 1.5 m high

Applications:

Diesel oil service tank level control
Oil / water storage tanks
Coolant header tanks
Traction fuel / water tanks
Transformer oil level indication
Generator base tanks

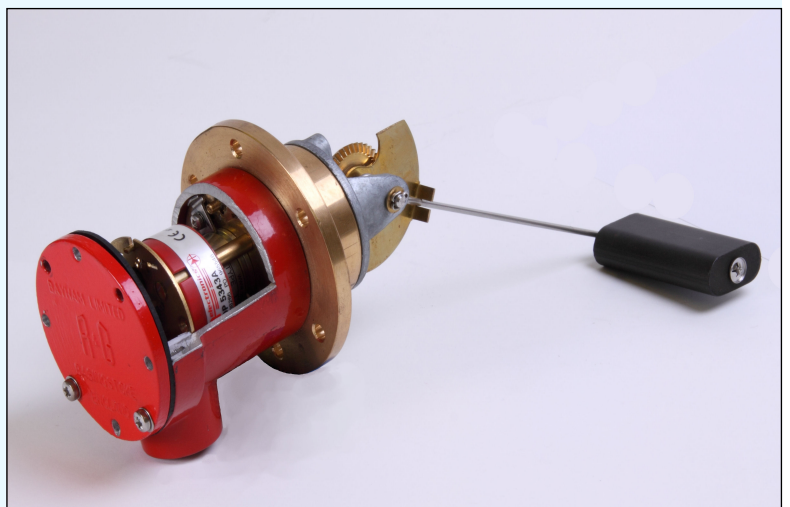
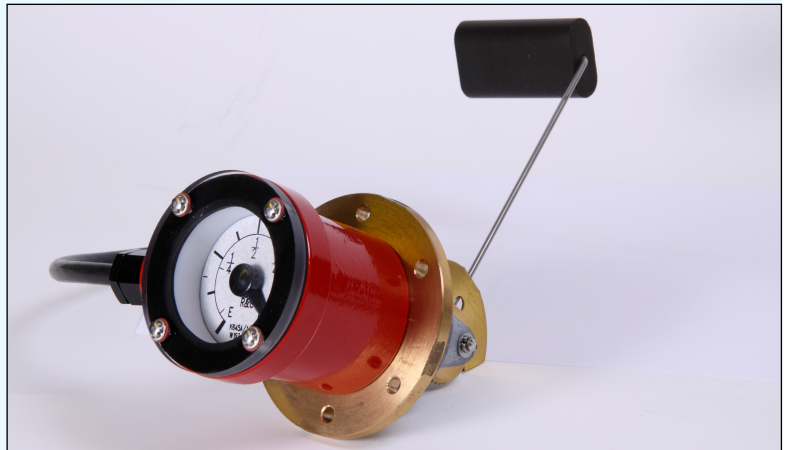
Function

The 2050 gauges are simple float operated devices fitted with precision potentiometers to enable remote monitoring. A separate power unit can be 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 optional local dial may be calibrated in fractions, percentage, litres or any other standard engineering units. Dial size is 50 mm diameter. 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.

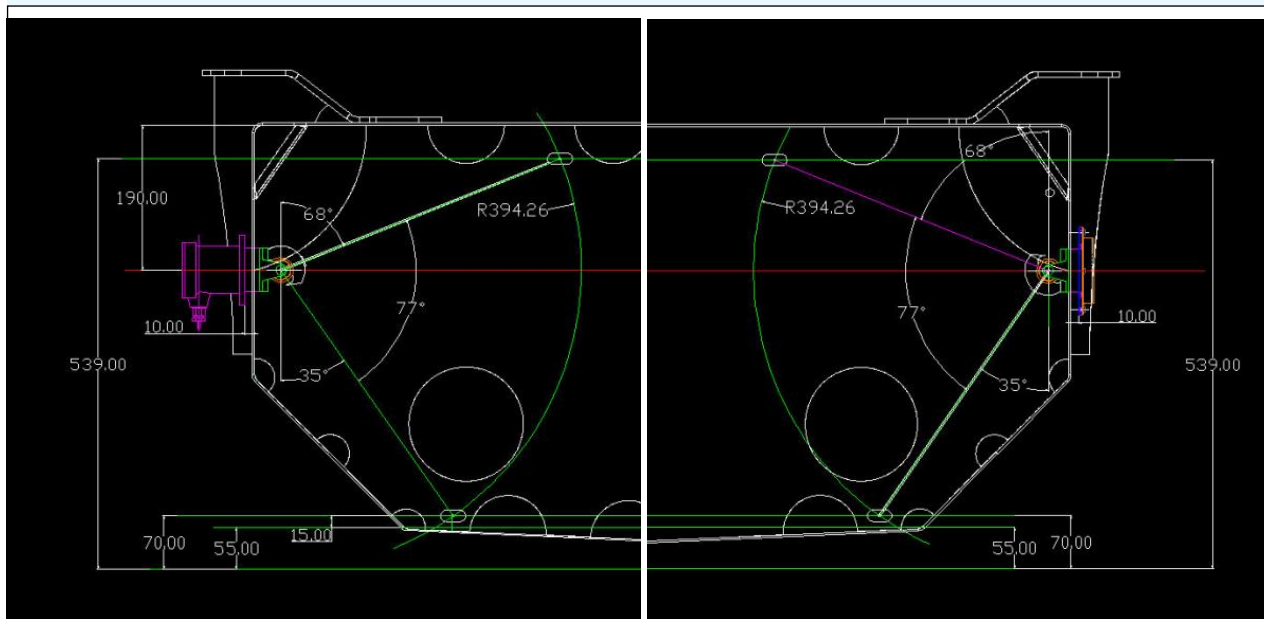
The 2050 gauge is fitted with the Bayham standard B9 (TP.102/3) size mounting flange as used on Bayham DR50 and Y400 mechanical gauges enabling a simple retrofit for upgrading to a remote monitoring system. Please see separate data sheets for details of remote indicators and control units.



Technical Specifications

Gauge housing:	Polyester coated aluminium
Flange:	Brass or stainless steel
Gears:	16/40 or 11/40 ratio in brass or stainless steel
Floats:	Plastic, stainless steel or NITROPHYL®
Maximum float arm angle:	120 degrees
Maximum pointer movement:	300 degrees
Pressure rating:	Dependant on flange/float type
Temperature rating:	80 °C standard, high temperature versions are available
Output:	1000 Ohm potentiometer or 4-20mA loop powered
Weather protection:	In accordance with IP67

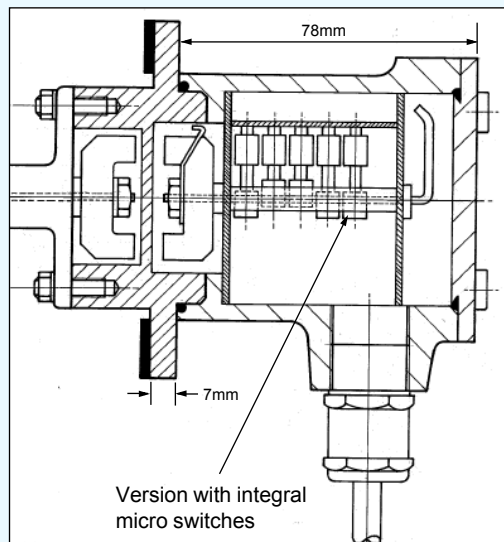
2050 TANK CONTENTS GAUGES



We offer a design-in service to assist with correct gauge positioning and CAD tank calibration for irregular shaped tanks.

Information required:

1. Tank dimensions
2. Baffle/stay details-if fitted
3. Preferred mounting position of gauge
4. Fluid details
5. Operating conditions
6. Dial calibration units i.e. fractions, litres
7. Whether static or mobile application
8. Tank slope angle, if any
9. Output potentiometer or 4-20mA



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.



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