

Battery Operated Tank Contents Gauge



Operation

The model 38 gauge uses the hydrostatic principle of proven reliability and simplicity, with push to read electric pump using 4 AA batteries. This method requires minimum installation time and gives important advantages in the safe measurement of volatile liquids. The electric pump charges the system with air under pressure. The liquid is displaced from the balance chamber at the bottom of the tank, while excess air escapes via the tanks vent. The resulting pressure in the balance chamber is indicated and is proportionate to the head of liquid in the tank. The gauge unit can be mounted at any position, and may be disconnected at any time without upsetting the calibration. Maintenance is not normally required, except battery replacement, as there are no moving parts external to the gauge unit.

Callibration

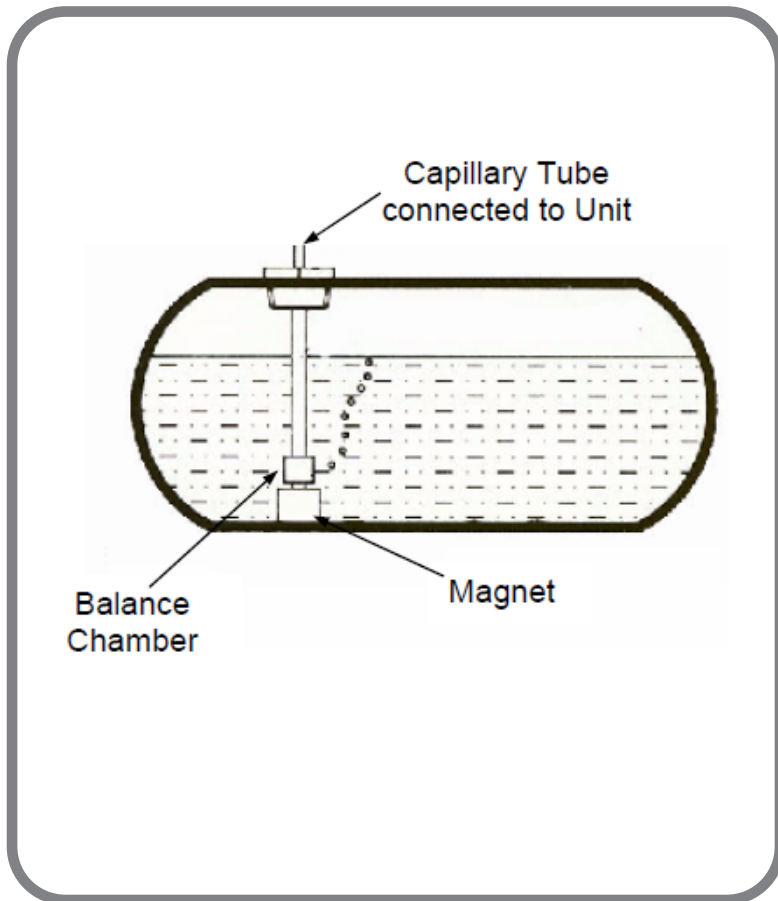
Each gauge unit is individually calibrated and scaled, to customer requirements for Rectangular, Cylindrical (Horizontal or Vertical) tanks in litre, gallon, kg, tonne etc.

Installation

The model 38 contents gauge can be mounted in any convenient position up to 200m from the tank without affecting the reading. Installation is simple. Remove front cover and mount the gauge with 4 fixing screws not supplied, insert the balance chamber through a 1" or 1 ½" BSP tank boss on top of the tank allowing it to rest on the bottom, then tighten bush and capillary clamp. Connect the tube to the gauge unit. There is no need to empty the tank.

Battery life: subject to usage, minimum 700 cycles

Battery Operated Tank Contents Gauge



Balance Chambers

BC1:- for tanks with 1 ½” bsp Tank Boss

Construction:- Brass with 6mm o/d polyurethane tube c/w magnet

BC1 is available in any of the following materials:

PVC (1), Copper (6), Stainless Steel (7)

Viscosity Limit:- 50 sec, redwood no.1 @ 16°

General uses:- Heating oils, paraffin or where liquid does not attack PVC or brass or mild steel.

BC2:- for tanks with 1” bsp Tank Boss

Construction:- As BC1 but with weight in place of magnet

General uses:- As BC1 and non magnet tanks

BC3:- for 1” bsp Tank Boss Rigid

Construction:- BC3 is available in any of the following materials:

PVC (1), Polypropylene (2), PVDF (3)

Copper (6), Stainless Steel (7).