

# Continuous Reading Battery Operated Tank Contents Gauge



## **Operation**

The model 36 gauge uses the hydrostatic principle of proven reliability and simplicity, with an electric pump using an electronic timer and long life Thionyl Chloride Lithium 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 for a pre-set time, at pre-set times per day. 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.

## **Calibration**

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 36 contents gauge can be mounted in any convenient position up to 200m from the tank without effecting the reading. Installation is simple. Fix gauge in required position, insert the balance chamber attached to the 6mm pipe through a 1" or 1 ½" BSP tank boss on top of the tank allowing the balance chamber to rest on the bottom of the tank, and then tighten bush and tube connection. Lastly, trim end of 6mm pipe squarely, push pipe fully into fitting on bottom of gauge, install the batteries into the battery box. There is no need to empty the tank.

## **Specification**

**Case:** 36S - St St 160mm surface mounting or 36P - Polycarbonate case 180 x 180mm  
**Dial:** Black letters on white background  
**Connection:** 6mm push-in fitting  
**Timer:** Pump on 5-20secs, pump off 0.5-24hrs  
**Battery life:** 5-10yrs, subject to usage. ONLY use Lithium Thionyl Chloride Batteries 3.6V 2.4mAh

Two styles are available: **Model 36S**  
160mm 304 St St Case  
**Model 36P**  
180 x 180mm ABS case with polycarbonate window

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## BC2 – Standard Balance Chamber

Construction: Brass with compression fitting for 6mm tubing

Also Available in: PVC (1) or Stainless Steel (7)

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

Requires a 1" bsp Tank Adaptor

BC2 Standard Brass balance chamber

BC2-1 PVC balance chamber



## BC1 – as BC2 but with Magnet

Construction: As BC2 but with attached magnet to stabilize the balance chamber in position when tank is being filled.

Requires a 1 ½" bsp Tank Adaptor

Magnet for Standard balance chamber

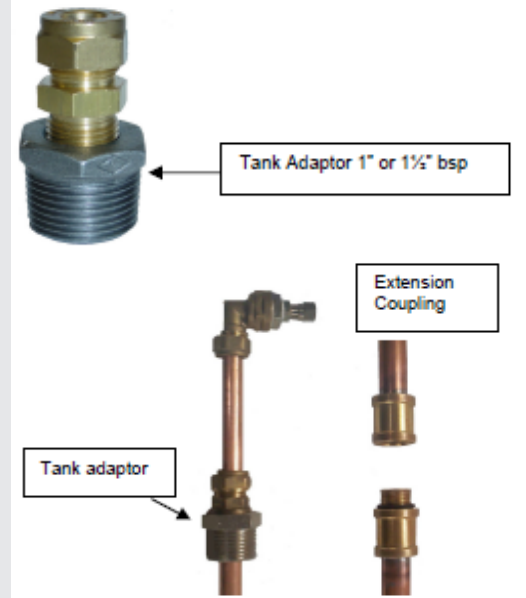


## BC3 – Rigid Balance Chambers

Construction: PVC (1), Copper (6) or Stainless Steel (7).

Requires a 1" bsp Tank Adaptor

Made to customer requirements



For use with - Models 28PU, 28PUE, 36, 37, 38, 39, 40 & 45