



## **TYPE G/LL148 HYDROSTATIC LIQUID LEVEL GAUGE**

**Installation Instructions. Issue 2 Sep 2007**

### **GENERAL**

The G/LL148 is a hydrostatic liquid level gauge system. The gauge, sealed to IP67 (from the front) and continuous reading, is designed to be panel mounted but also has the option of a universal mounting bracket for alternative mounting. The transmitter, which is made from Brass and Elastomer, is sited at the bottom of the tank or liquid vessel and is connected to a remotely positioned gauge via small-bore copper capillary tube.

### **INSTALLATION - GAUGE**

The gauge can be positioned as far as 8 metres from the tank. If mounting outdoors, it should be protected from direct sunlight.

### **INSTALLATION - COPPER TUBE and TRANSMITTER**

Mount the tank adaptor (if supplied) close to the main hatch cover.

### **Connections.**

Connect one end of the copper capillary tube to the gauge, if not already done so, and apply Loctite/thread sealant to the thread. The copper tube is pre-cut to customer's required length. Drill a Ø10mm hole through the top tank surface approximately in arms reach to the main hatch cover. Pass the copper tube through the pre drilled hole in the tank and then insert the brass tube connector into the threaded hole in the transmitter and apply Loctite/thread sealant to the thread. Tighten the joint by rotating the transmitter until the 'O' ring is compressed and an air tight joint is achieved (**Ensure** 'O' ring is fitted to brass connector). Lower the transmitter into the tank to the bottom surface such that the brass tube does not stand on its end but lies horizontally. Note: The gauge must be connected, and both threaded joint sealed, before the transmitter is lowered into the tank. Check that the copper tube is fairly straight and does not have any harsh bends. Firmly press the tapered plug into the pre drilled hole in top tank surface.

### **Important: Both threaded joints must be a 100% airtight connection.**

It is recommended that thread sealant/Loctite is used on all joints to ensure an airtight seal.

### **TROUBLE SHOOTING**

If the airtight seal of the system is compromised in any way, the gauge will not indicate the correct level. This should be rectified in the following manner:-

Lift the transmitter out of the tank. Un-thread the capillary tube from the end of the transmitter - wait at least 5 minutes to allow the tubular bladder, inside the brass tube, to fully recharge with air before resealing. Check that the bladder has recovered to a tubular, un-flattened state by viewing from the opposite end to the threaded connection. If the bladder has not fully re-inflated after 5 minutes, push the tube gently to cause the bladder to resume a tubular form. Re-make the threaded joint between the capillary tube and the transmitter and lower the transmitter carefully back into the tank. (It is recommended that the system is recharged at least every 2 years to replace any minor loss of air).

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