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## **HYDROSTATIC LIQUID LEVEL GAUGE - TYPE G/LL146**

### **Installation Instructions**

#### **GENERAL**

The G/LL146 is an open hydrostatic liquid level gauge system. The gauge, sealed to IP54 and continuous reading, is designed to be panel mounted. The gauge has a remote air pump which requires priming in order to ensure the accuracy of a reading, every time a reading is taken. The system uses a polyurethane capillary tube to sense the hydrostatic liquid pressure, and which is therefore required to be of suitable length and weighted so that the open end reaches to the bottom of the tank or liquid vessel. The other end is connected to the remotely positioned gauge and pump via a single "T" piece.

Where appropriate, a magnetic sinker may be attached to the end of polyurethane capillary tube, and then lowered to the base of the tank during installation.

It is important that the capillary tube takes no strain during either lowering of the sinker into the tank, or after installation.

#### **INSTALLATION of GAUGE and PUMP.**

The gauge is designed to be panel mounted in a standard 53mm circular hole, or alternatively bracket mounted using a standard auto parts auxiliary mounting bracket. The pump can be panel mounted in an 18mm circular hole and two 2mm circular screw holes (The pump mounting bracket can be used as a template to obtain the correct position). The pump can then be secured using 2 x self tapping screws (Provided with the pump).

#### **INSTALLATION - POLYURETHANE TUBE and MAGNETIC SINKER**

The capillary tube runs from the weight or sinker at the bottom of the tank, through the tank top, and on to the remote gauge and pump via the "T" piece. A suitable Magnetic Sinker SK/M1 is available as an optional extra for use in appropriate cases (steel tanks).

A suitable tank connector C/T1 is also available as an optional extra to facilitate the passing of the tube through the tank top. Appropriate lengths of tube must then be attached to each end of the tank connector, and sinker or gauge, as appropriate.

Once all capillary connections have been made, the weighted end of the tube or sinker can be lowered to the base of the tank, taking care not to strain the capillary tube or pull it off the sinker connection spigot during or after this operation.

The level in the tank at time of installation is not important, as the system pressure will immediately signal the correct level to the gauge when the system has been primed using the remote air pump. On first installation several pump strokes will be necessary, and each time the gauge indication will increase. Pumping may be stopped when the gauge reading no longer increases after each pump stroke. The gauge will now be correctly indicating the depth of liquid in the tank.

The remote air pump requires priming in order to ensure the accuracy of a reading, every time a reading is taken especially when a large amount of time has elapsed between readings.

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### **TROUBLE SHOOTING**

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

1. Ensure the gauge is connected, correct any leaks and check that the capillary tube connections are sound.
2. Prime the system using the remote air pump.

### **INSTALLATION DIAGRAM**

