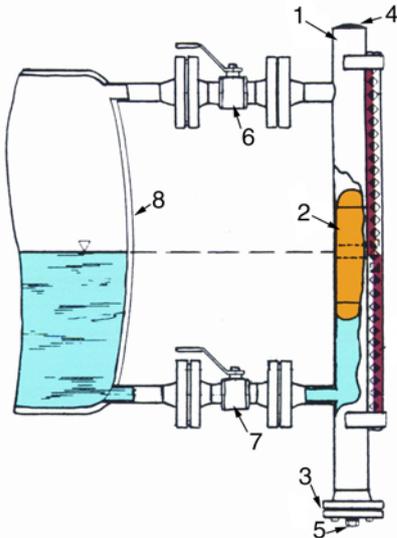


# Tec-Site INSTALLATION & OPERATION INSTRUCTIONS

## 1. UPON RECEIPT

- 1.1 Upon receipt of the instrument, it should be carefully inspected to determine any damage incurred during shipment, and in particular, attention should be given to the following:-



1.2 The dimensions and material of construction fully comply with the requirements of your order.

1.3 That all rotors in the indicator rails are showing their white side when viewed from the front. It is possible that shocks to the instruments during transit, can cause individual rotors to rotate and show their red side, and should this be the case, then they can be corrected to show their white side by running a magnet along the outside front face of the indicator rail. The float (Item 2) can be used for this purpose.

**Note:** Claims against incorrect supply of faulty goods should be made within 10 days of receipt of goods

## 2. Float (Item 2)

- 2.1 Both the float and the indicator are packed separately in the main transit packaging, which is normally a suitable plastic tube or wooden box.
- 2.2 The float is engraved "TOP" at one end and this end must be upward when finally installed into the float chamber.

**Note:** If the level indicator is to be reshipped to another customer or location, then it is imperative that the float does not travel fitted inside of the float chamber as this will most certainly result in damage to the floats built in "drive" magnets and will void any warranty claims against the manufacturer, for incorrect function of the unit. Do not drop the float as this will also very likely result in damaging the floats built in magnetic drive system.

## 3. INSTALLATION

- 3.1 Connect the instrument to the process vessel (Item 8) via the indicators flanged or threaded process connections.  
It is assumed and recommended that isolation valves are interposed between the instrument and the process vessel to facilitate safe removal (for maintenance etc.) of the instruments. Both valves shall be closed while the fitting process is in progress.
- 3.2 The faces of the vessel and indicator flanges must be reasonably parallel and inline. If undue force is required on the nuts and bolts, to bring the flange faces together, then the float tube may distort and render the indicator inoperative.
- 3.3 After the instrument has been attached to the process vessel, remove the bottom flange (Item 3) from the instrument and insert the float into the chamber (Item 1) taking care that the top of the float is upward.
- 3.4 Replace the bottom flange and its gasket and tighten up all of the flange fixing bolts.
- 3.5 Check that the vent (Item 4) and the drain (Item 5) plugs are tight and sealed.

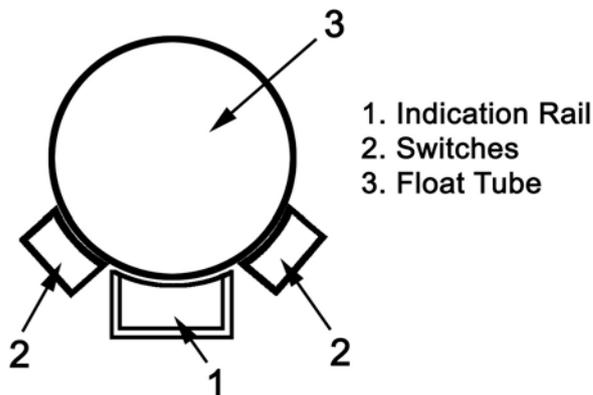
## 4. START UP

- 4.1 Open the top valve (Item 6) very slowly.
- 4.2 Open the bottom valve (Item 7) very slowly.
- 4.3 The liquid in the process vessel will now enter the float chamber picking up the float who's internal magnet position will correspond with the liquid level in both the process vessel and the float chamber.  
As the liquid level changes, causing the float to either rise or fall, the indicator strip will also progressively change colour, with red indicating the actual level of process.

**Note:** Be sure that the internal wall of the float chamber is clean and in particular, clear of any ferrous material that could impede the travel of the float.

## 5. ALARM SWITCHES

- 5.1 Alarm switches can be fitted onto the outside of the float tube. As the float is magnetically bias toward the indicator rail, we recommend that switches be fitted as close to the indicator rail as is possible (See Fig 2).



- 5.2 There are a range of switches available that include Ex-Proof or Non Ex-Proof types as either S.P.S.T. or S.P.D.T.

- 5.3 Transmitters giving an output of 4-20mA can also be supplied fitted to the various models in this product range. For further details contact Ambit Instruments Pty Ltd.

Figure 2 Top View

6. These instruments are normally maintenance free, however, in the event that the float is jammed or damaged, then the instruments must be isolated from the process vessel via the two isolating valves (Items 6 & 7) prior to commencing any further maintenance or inspection.

# **AMBIT**

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