

Model : DFR-1 Description : Floatless Relay - Single Tank Control

Utilization:

The DFR-1 controls levels of conducting liquids by using 3 probes as shown in figure. The operation is as follows:

- On supply, the AMBER LED is lighted and remains lighted when the liquid level rises to contact with CO & LO.
- When the liquid level reaches probe HI the AMBER LED goes off, the RED (HIGH) LED is lighted and the relay actuates.
- When the level drops below HI the RED LED remains on and the relay remains latched.
- When the level drops below LO, the RED LED goes off, the AMBER LED lights and the relay releases. The LEDs indicate the condition of the relay.

For pump-in operation of tank, connect the starter through contacts 11 & 12. For pump-out operation of well, connect the starter through contacts 11 & 14.



Technical Data Supply Voltage : **□**240VAC **□**115VAC \Box 24VDC \Box 12VDC \Box 24AC/DC \Box 12AC/DC : 50~60Hz Frequency Consumption : 2VA ON Response Time : 100 msec. **OFF Response Time** : 100 msec. Sensitivity of Probes : > 50kOhms Voltage between Probes : 31VDC Current through Probes : 250uA Indication : AMBER LED (Relay OFF) **RED LED (Relay ON)** Output Contacts : 5A 240V 50Hz AC1 Relay ON 11-14 Close 11-12 Open Relay OFF 11-14 Open

11-12 Close The above specifications and instructions assumes that the HIGH LED is RED and the LOW LED is AMBER. Colours may differ for different production batches.

