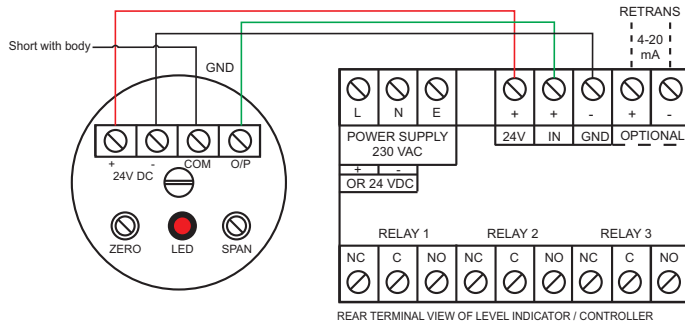


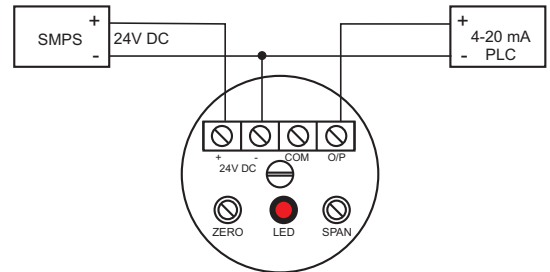


Calibration For Rope Type Capacitance Level Transmitter

CONNECTION WIRING DIAGRAM WITH DIGITAL INDICATOR / CONTROLLERS



3 WIRE CONNECTION TO PLC



Capacitance is measured between 2 probes, the inner probe & the outer pipe/probe.

In case outside pipe is not provided as in case of flexible rope type probe then the tank is considered as the second probe.

Your first step should be to take a long enough wire & connect its one end to the tank body & the other end to the -ve of the sensor probe terminal.

Now when you remove the sensor out of the tank it is still works as 2 probes as we have connected the Tank & the Probe with a wire.

This is essential only for rope type where the tank is considered as the second probe.

First Fill your tank to max level where you need 20mA.

Now the sensor is properly placed into the vessel or tank and is ready for calibration.

Now connect the transmitter as shown in the fig. with our indicator OR Multimeter which displays the current (mA) .

Switch on the supply & the "POWER ON" LED glows.

By default the first calibration shall be for 4 mA i.e when tank empty or your lowest level where you need a 4mA output.

Your second calibration shall be for 20mA.

The transmitter has 2 trim pots (zero & span) by which it can be calibrated for minimum and maximum values of 4mA and 20 mA

Remove the the probe assembly outside the tank with the wire connected . The probe is now in air & this is considered as the lowest level .

Set 4mA by rotating the zero pot in the transmitter either in clockwise or anticlockwise direction depending whether the reading has to be increased or decreased.

Once the 4mA is set, we are ready to set 20mA by putting the probe assembly back into the tank where the level is full & we need 20mA.

Now observe the reading in multi meter & accordingly rotate the span trim pot to set 20mA.

This procedure is repeated (minimum 3 times & max 5 times) till 4mA & 20mA is set & we don't require to adjust the trim pots anymore.

This completes our calibration process.