

REMOTE TEMPERATURE / LEVEL INDICATOR CUM CONTROLLER

..... For Hydraulic oils



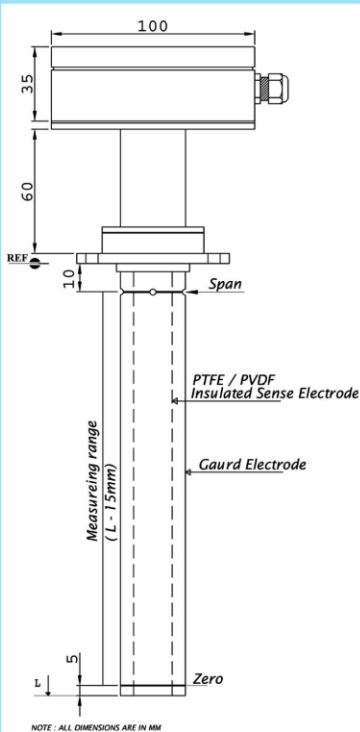
Remote Digital temperature / level indicator cum controller is used to indicate and control both temperature and level of liquid mainly for **hydraulic oils*** in machine tool industry.

This type of instruments will have sensor unit, display unit separately and the distance between the two units can be upto 10 meters (Cable supplied).

Sensor unit incorporates PTFE/PVDF insulated sense electrode, stainless steel guard electrode. Passivated MS mounting flange and pressure die cast aluminium enclosure which houses electronics and 4 core cable for connection to display unit. Display unit consists of noryl enclosure with mounting clamps and electronics with programmable keys and display LEDS.

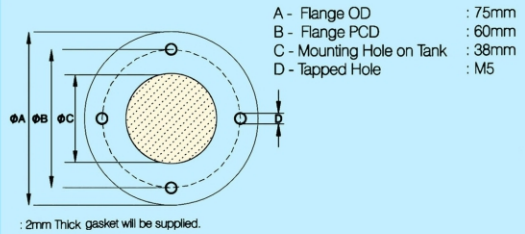
Solid state temperature transducer is housed at bottom of sense electrode and its output is proportional to the surrounding liquid temperature and the same is converted and indicated in °C. Capacitance variation between sense electrode and guard electrode which is proportional to the liquid level between the two electrodes is converted in to electrical signal using unique mixed signal technology and indicated in % between two marked locations. Two programmable set points are provided for temperature and level for external control. Indicator can be programmed to display either temperature / level alternatively or only temperature / level.

* Working has been verified for hydraulic oils grade ISO 32, ISO 46, ISO 68.

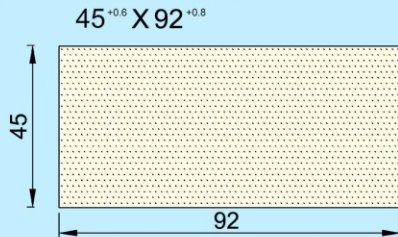


CUTOUT AND MOUNTING DETAILS :

Cut - out on tank for Sensor unit



Cut - out on panel for display unit



Technical Specifications:-

- | | |
|------------------------------------|---|
| 1. Input Voltage Range | : + 18V..... + 30V DC. |
| 2. Max. Output current | : 100 mA. |
| 3. Output type | : PNP. |
| 4. No. of Outputs | : Four programmable for set point, differential & switch action (NO or NC). (Two for level, two for temperature). |
| 5. Output short circuit Protection | : Provided for 10 sec. |
| 6. Reverse Polarity Protection | : Provided. |
| 7. Ambient temp range | : 0°C to + 70°C. |
| 8. Max pressure | : Atmospheric. |
| 9. Max. liquid temp | : 100°C. |
| 10. Max. error | : ± 0.25% ± 1 least count for temp.
± 1% ± 1 least count for level. |
| 11. Indicating range | : 1°C to 99°C in 1°C step for temp.
1% to 99% in 1% step for level. |

since continous development is our policy, the above specification and details may change without prior notice.

ORDERING INFORMATION: -

RTLI / L ———

Remote **T**emperature /
Level **I**ndicator cum controller

————— Probe length L in mm.

Note: Standard Stocked probe lengths 150, 175, 200, 225, 250, 275, 300mm
(Other sizes against request).



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