

OIL LEVEL INDICATOR

MODEL : OLI-HI-50

1.0 APPLICATION :

This indicator is suitable for oil filled distribution transformers & oil filled tanks.

2.0 SCOPE:

Indicator continuously reads level inside the conservator or Oil filled tanks.

3.0 CONSTRUCTION & WORKING :

The indicator has a cast aluminium body and an integrated mounting flange. A pair of permanent magnets separated by a metallic wall are used to prevent oil leaks and the entry of contaminated air into the tank (see schematic). A driving magnet submerged in oil is coupled to a float that serves as a sensor. The driven magnet has a pointer and is situated outside of the body. The pointer allows for readings of the oil level on the dial. To prevent the ingress of moist air, the body of the indicator with the dial is sealed. There are no electrical contacts on this device. Allen Screws can be used to adjust the length of the float-arm.

4.0 SPECIFICATIONS :

Liquid in tank :

Compatible with transformer or any other oil.

Specifications :

Temperature	: -10° to +115° C of oil.
Pressure	: 0 to 1 kg/Cm ²
Environment	: Indoor or outdoor.
Ingress Protection	: IP-65.
Corrosion Resistance	: Available in C4-M & C5-M.

Mounting :

In order to mount the indicator, the buyer must provide a pad that matches Fig. 4. Depending on the significance of the oil level measurements, a position can be chosen on the vertical wall of the conservator tank.

Calibration :

Dial Size	: 50 mm round (nominal)
Unit	: Any calibration as per Customer's requirement is possible.
Colour	: Yellow marking on black background or any other combination as required.

Float (sensor) and arm :

Travel	: Max 120 degrees below & above center.
Length	: Adjustable Float arm length, Max 200mm

5.0 Routine Tests :

Each indicator is tested for specified levels.
A test certificate is issued for each batch.

6.0 HOW TO ORDER :

To order, mention required float arm length. However, a drawing is acceptable giving all specifications.

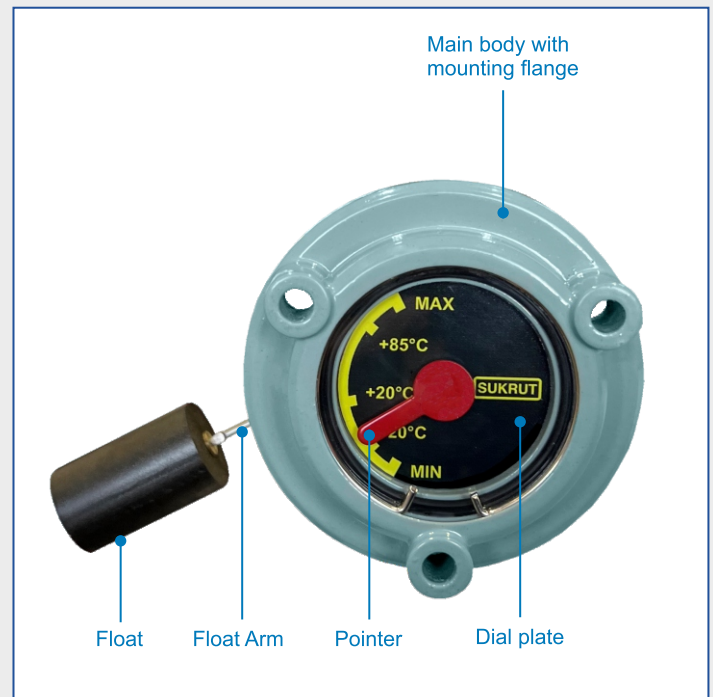


FIG. 1 SCHEMATIC

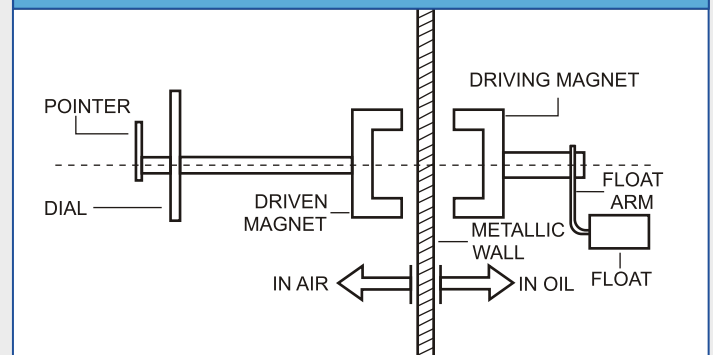
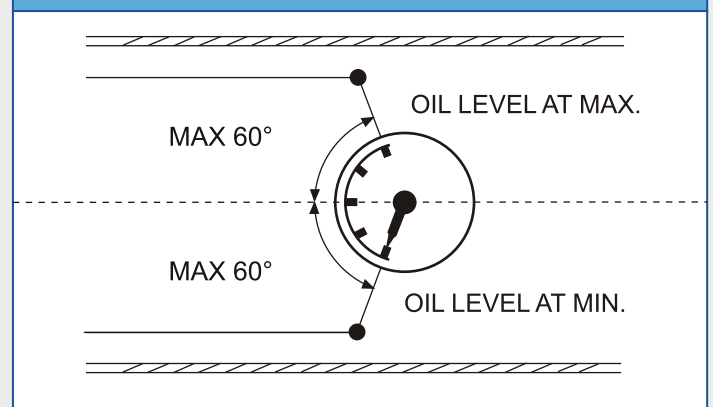


FIG. 2 FLOAT LEVEL



OIL LEVEL INDICATOR MODEL : OLI-HI-50

FIG.3 OIL LEVEL INDICATOR-HI-50

FRONT VIEW

MAX LEVEL

MIN LEVEL

MAX

+65°C

+30°C

-30°C

MIN

60°

38

23

3 EQUISPACED HOLES OF $\phi 7$ ON PCD $\phi 68$

SIDE VIEW

20

60 ± 5

11.5

6

42.5 ± 5

32.5

3

$\phi 82$

$\phi 55$

$\phi 46$

$\phi 27.5$

6

5

3

4

PART LIST

S/N	DESCRIPTION	MATERIAL
1.	HOUSING	CAST AL.
2.	LENS	POLY-CARBONATE
3.	FLOAT ARM	S.S
4.	FLOAT	NITROPHYL
5.	LOCKING SCREW	S.S
6.	LOCK NUT	S.S

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FIG.4

MOUNTING PAD

3 STUDS OF M5
ON PCD $\phi 68$

$\phi 35$

TANK PLATE

$\phi 82$

35

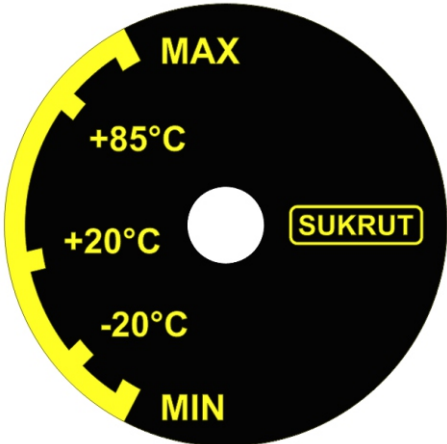
LEAK
PROOF
WELDING

FRONT VIEW

SECTION AT 'A-A'

MOUNTING PAD & GASKET NOT SUPPLIED BY SUKRUT

FIG.5 **DIAL MARKING**



SPECIAL DIAL MARKING IS POSSIBLE

1. All dimensions are in 'MM'.
2. Indicators of different specifications are not interchangeable. Hence care should be taken while storing Indicators and their Float with Arms. This indicator can be used for vertical mounting as per order.
3. Float & Indicator, loose or assembled, should be handled carefully as they cannot be repaired if damaged.



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