



Magnetic Oil Level Indicator (FORM B) DIN 42569

Magnetischer Ölstandsanzeiger (FORM B)
DIN 42569

APPLICATION AND CONSTRUCTION

Form-B Oil Level Indicators are used in transformers of powers greater than 5000 kVA for the purpose of monitoring their oil level.

Structurally this product consists of two basic parts; the isolated flange and the indicator. Indicator unit has no contact with the oil.

Indicator unit has ventilation holes which are located on the upper and bottom rear sides in order to prevent the accumulation of condensed water.

Oil level indicators do not allow oil leakage at temperatures of 110°C, 0,5 bar effective pressure and vacuum.

Isolation Flange: Injected Aluminum
Indicator Unit: Injected Aluminum,
painted with RAL 7033 or RAL 7001

Indicator Dial: Aluminum sheet, coated
with black eloxal and yellow serigraphy

Pointer: Yellow painted brass

Indicator glass: Polycarbonate
(UV resistant)

Float: Oil resistant, closed cellular type
special plastic foam

Contacts: Switches in compliance with
DIN VDE 0660

Outer screws: Stainless steel

OPERATION PRINCIPLE

The float movement associated with the oil level is radially transmitted to the magnetic coupling system of the indicator via the float lever. A magnet connected to the float-lever mechanism, drives the polarized indicator magnet connected to the pointer.

If requested, this movement can be axially transmitted through a special joint equipped with a gear system.

The models equipped with electric contacts, operate in accordance with the position of the calibrated pointer.

TYPES AND CONTACT SYSTEMS

Oil level indicators can, on request, be manufactured in form single or double contacts with the electrical characteristics of 5A/125VAC or 3A/250VAC. As cable connection system, cableplug or terminal-box type connection units are available.

Form-B Oil Level Indicators are classified according to their contact types as follows:

Type **B0**, without contacts

Type **B1**, single contact, for warning the lowest oil level

Type **B2**, double contacts, for warning both the lowest and highest oil levels.

ASSEMBLY INSTRUCTIONS

The procedure to be followed during the assembly is given below:

- The front body and the rear flange of the indicator should be separated by loosening the four connection screws.
- Float lever length is to be adjusted to the desired length (for radial types) and fixed. (For radial types, float levers can be freely adjusted by the customer during the installation from min. 240 up to 790 mm length, or they can be supplied as fixed lengths according to the customers' request)
- The rear flange should be mounted on to the tank with a gasket (to be supplied by the customer) by carefully taking the "TOP" sign on the flange into consideration.
- As the last step, front body is to be mounted on the flange by four screws. Since the bodies and the flanges are coupled and specially adjusted in the factory for each level indicator separately, the bodies and the flanges should not be mixed with the other indicator units. Both the body and the flange has distinct serial numbers, it is very important that the serial numbers on the body and the flange are the same.

Normally the contact switch positions are factory adjusted according to the customer's specifications. If desired, after finishing the installation of the oil level indicator, switch positions can be verified by the customer as follows:

- The screw of the indicator glass is to be loosened first. Then the glass should be rotated until the internal pin underneath the glass touches and moves the pointer to the pre-set operating point. At the pre-set points, the contact switches should operate.
- After these checks, the indicator glass should be rotated to its original position while the "TOP" indication stays on the upper side, otherwise the freely moving pointer will be influenced from the pin, thus preventing the operation of the contacts.

Änderungen können ohne Benachrichtigung vorgenommen werden.
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