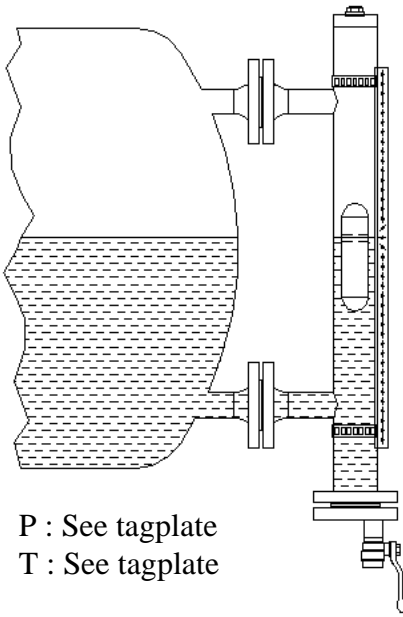


POINTER[®] magnetic level gauge

Type : D- ; L- ; R-



1 General

- a Only authorised personal may operate the level gauge.
- b Magnetic level gauges are measuring instruments, please handle with care.
- c Please check if your magnetic level gauge is the one you ordered. Check C to C, process flange, density float etc. Float, switches, leveltransmitter can be packed separately, but together in one box.
- d The level gauge can be used for liquids and for condensate gasses if they don't harm the material (SS316 and/or Titanium)

2 Mounting float

- a Check if the float is not damaged and remove the metal parts (if any)
- b Mount the float with top side up into the measuring chamber through the bottom stop. Change if necessary the gasket.
If the float has to be installed by the top flange, the float has a lifting hook. Slowly bring down the float by the lifting hook to prevent damaging the float.
- c **Bring the float into the measuring chamber to its max. position and back to its starting position for the right moving of the flaps cq. switches.**

3 Mounting level gauge

- a Fasten the magnetic level gauge. Turn, if necessary, the flaps into the position you want.
- b Mount the level switches on the desired level, do the same with the level transmitter, if these were ordered.
- c If the surface temp. is high the level gauge should be insulated to prevent the danger of ignition and burn. For the function of the level gauge insulation is not a problem.

4 Pressure test

If the magnetic level gauge must be pressurized as a part of an installation, please do **not** do this with the float. (float does not have any safety factor)

5 Start-up

- a Purge the gauge if an explosive mixture can be expected.
- b Open top valve (gas side), vent if necessary.
- c Check if the connections of the level gauge are closed (flange connections and plugs).
- d Open bottom process valve (liquid side) slowly.
- e Level gauge is in operation.
- f Do not use the drain as bleedvalve

6 Shut down (out of operation)

- a Purge the gauge if an explosive mixture can be expected.
- b Close bottom valve (liquid side).
- c Close top valve (gas side).
- d Open vent slowly (please take care of the possibility of a explosive air-gas mixture).
- e Open drain (please take care for jet of liquid, hot or explosive liquids).
- f Level gauge is out of operation.

7 Maintenance

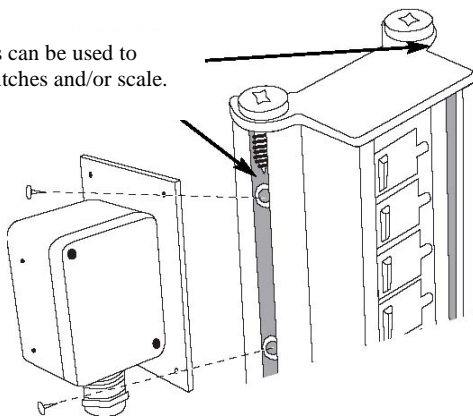
Maintenance is only necessary if the liquid is sticky, clean the measuring chamber periodically. (special types are available). Lifetime of flaps is limited if temperature > 105°C for Polycarbonate rail or >160°C for others. Do always use original products by replacements.



INSTRUCTION MANUAL

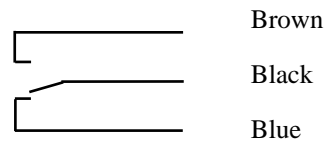
Installation instruction switches, reedchain and/or scale

Both sides can be used to mount switches and/or scale.



Type 104450 (GP), 610045 Eexi or Eexm

Rating 0,8A/40W/60VA (104450)
Rating 0,6A/45W/45VA (610045)
Supply 10 – 230 V



IMPORTANT!

Power must be switched OFF before wiring the unit.

The density of the liquid can change by fluctuating pressure / temperature, so the float can indicate an other level when installing the level gauge.

If necessary make sure that a galvanic barrier is used for intrinsically safe units.

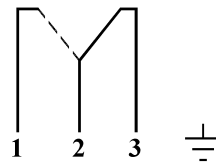
Operating instructions:

1. Mount the switch on the correct position.
2. Move the float from bottom to top and back.
3. Check the function of the switch.
4. If necessary, change the cables of the switch if an other function is required.
5. Connect the switch to the supply.

Micro switches

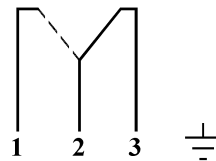
Type LMS-Ha1, LMS-HaD

Rating 2A/40W/100VA
Supply 10 – 230 V



Type LMS-Ha1E

Rating 0,5A/20W/30VA
Supply 10 – 24 V



Reedswitches

Type LMS-Ha2

Rating 0,8A/60W/40VA
Supply 10 – 230 V



Reedchain transmitter

Type P-10 (GP, Eexi or Eexd)

If necessary mount in transmitter on the level gauge. The 4 mA setting is marked on the chain and should correspond with the lowest point of the bottom process connection.

Supply 8 – 30 VDC

Only the terminals + and – should be used for wiring up the device. The other terminals (3,4,5 and 6) are for factory use only.



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