

Magnetic Bypass Liquid Level Indicator

- Measuring range up to 5800 mm.
- Local indication by two coloured column.
- Electrical output sensitivity 5-10-20 mm.
- Floats for density of liquid from 0.7 kg/dm³.
- Standard connection by flange DN25 PN16.
- Operating pressure max. 1.6 MPa.
- Medium temperature -30 to to 350 °C.
- Ambient temperature -30 to +105 °C.
- Integrated magnetic level relays (optional).
- Housing IP 65 / IP 66.
- Explosion-proof version.



Application

The liquid level indicators of LM1720 series are suitable (depending on the product type) for measuring and control of liquids as water, flammable liquids, acids and similar aggressive substances. High protection of additional components ensures their use in hard climatic conditions.

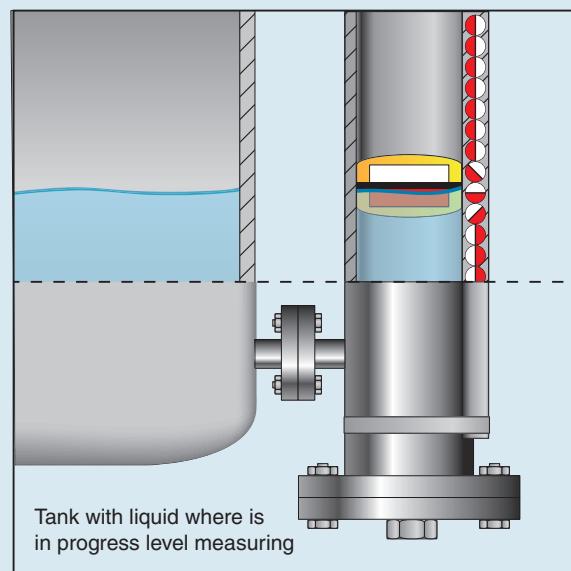
Description

The LM1720 level sensors are formed by guide (measuring) tube and float. Standard types are made of stainless steel tube and float. The tube with flanges form a continuous vessel. Float with integrated magnets ensure level measuring. Magnetic field affects the external components that allow measurement and control of liquid level. The inner space of the sensor is closed by flange with sludge screw and covering stainless steel stop o-ring. Magnetic rollers placed inside the aluminium guide tube box (optical display) are rotated by the movement of the float and display the level of the liquid.

Continual sensor with integrated relays in specific distances (5, 10, 20 mm) is possible to install as option. The float due to magnetic field connects relays and the device indicates liquid level. Output signal is processed by current transmitter to 4 to 20 mA signal. Up to four 4 limit switches can be added to the level indicator.

Principle

- In tube of device is placed float with magnet.
- The float that is controlled by level of the liquid flips magnetic rollers.
- Saturated color on rollers indicates liquid level.



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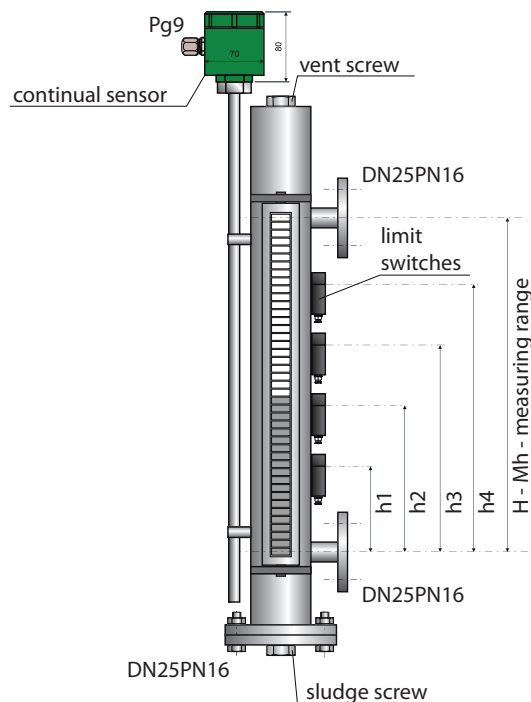
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LM1720 - Magnetic Bypass Liquid Level Indicator

Product drawing



Ordering table

Type	Description
LM1720	Magnetic bypass level indicator
Code	Output
0	Optical indication (magnetic roller)
6	Optical indication and continual electric output
9	Other
Code	Electric output sensitivity
0.	Without electric output
1.	5 mm
2.	10 mm
3.	20 mm
Code	Version
0	Standard
9	Other
Code	Environment
3.	Safe area without explosive atmosphere
1.	Ex, zone 1 ¹⁾
2.	Ex, zone 2 ¹⁾
Code	Material of wetted parts
1	Stainless steel
9	Other
Code	Output type
0	Optical indication (magnetic roller)
4	Output 4 to 20 mA
1	Output 4 to 20 mA and separate limit switches
2	Output 4 to 20 mA and limit switches with contacts against common terminal
9	Other
Example of order: LM1720 - 6 1. 0 3. 1 0	
Configuration sheet is required with order.	

¹⁾ ... Built-in passive components are connected to outer intrinsically safe device.

Length, process connection, number of switches and other parameters are selected in configuration sheet.

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