



## Measuring Instruments and Control

Industrial control instruments for process automation

### LEVEL CONTROLS

Submersible Level Transmitters

#### Float level

Magnetic Level switches

Ultrasonic Level Transmitters

Radar Level Transmitters

Guided Wave Radar

Rotary & diaphragm level switch

Vibrating level switches

Capacitive level switches

Level switches electro-optic

Conductive Level Switches

### PRESSURE CONTROLS

### FLOW METERS

### FLOW CONTROLS

### TEMPERATURE AND HUMIDITY

### DIGITAL INDICATORS

### LOAD CELLS & DYNAMOMETERS

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### TOR Level switches magnetic drive.

[TOR Level switches magnetic drive. With liquids, aggressive and food](#)

Measuring principle magnetic drive float

Measuring range up to 5000 mm

Output signal 1 Microswitch SPDT (on request SPST - SPDT)

Process connection 1" to 4" (optional flanged version)

Materials in AISI 316L - PVC - PP - PVDF

Temperature up to 200° C - Pressure up to 100 bar



The **switches float level** are indicated in the majority of industrial applications. They are used for a complete setup of the automatic management of tanks (also under pressure), tanks, boilers and for controlling pumps, valves, alarm systems.

Tools with rigid rod that are installed vertically on top of the tank or externally in a separate containment chamber connected to the reservoir.

Within a vertical blind tube, at the bottom and integral with the fastening system are positioned one or more contacts magnetically operated reed switch or a transmitter chain of reed switches.

One or more floating, free to slide along the guide tube, magnetically acting on the contacts positioned and intervention points (always adjustable field) by switching their state according to the level of the liquid present in the tank (level that is transmitted continuously).

Each **magnetic level switch** is sized and constructed with materials defined in relation to the characteristics of the liquid project and the conditions of the project. The intervention points are defined in the construction appropriate fees and are adjustable in the field that the latter option is have been previously reported.

Up to six points of intervention or continuous signal 0 ± 100% with analog output 4-20mA

#### Advantages

- Up to 6 points of intervention
- Electrical contacts field adjustable

[close and read technical characteristics](#)

[Technical Characteristics](#)

<b>Measuring principle:</b>	Magnetic drive float
<b>Measuring range:</b>	Up to 5000 mm
<b>Materials:</b>	Stainless steel AISI 316L - AISI 304L - PVC - PP - PVDF
<b>Output signal:</b>	SPDT - SPST - DPDT - potentiometric transmitter 4-20mA chain of reed switch
<b>Process connection:</b>	Threaded: 1" - 1½" - 2" - 2½" - 3" - 4" Flanged: DN50 - DN65 - DN80 - DN100 - DN125
<b>Temperature:</b>	Steels: -110÷200°C Buna N: -20÷+80°C PVC: -20°C÷+70°C PP: 20°C÷+105°C PVDF: -20°C÷+130°C
<b>Process pressure:</b>	Steels < 100 bar Buna N < 16 bar Materials plastics < 16 bar
<b>Degree of protection:</b>	IP67 (optional version IP68)
<b>Models:</b>	
<b>TOR A</b>	Model suitable for corrosive liquids such as acids and brines, where it is not recommended to use stainless steel.

	All wetted parts are completely PP-Polypropylene
<b>TOR B</b>	Model suitable for liquids with low specific weight such as hydrocarbons and mineral oils. Floating in BUNA N, the other wetted parts are stainless steel.
<b>TOR PC</b>	Model suitable for corrosive liquids such as acids and brines, where it is not recommended to use stainless steel. All wetted parts are fully PVC Polyvinylchloride
<b>TOR PP</b>	Model suitable for corrosive liquids such as acids and brines, where it is not recommended to use stainless steel. All wetted parts are completely made of PP (Polypropylene)
<b>TOR PF</b>	Model suitable for corrosive liquids such as acids and brines, where it is not recommended to use stainless steel. All wetted parts are completely PVDF (Polyvinylidene)
<b>TOR CD</b>	Model of small size, suitable for applications in hydraulic systems. It can also be used with liquids at low specific weight such as hydrocarbons and mineral oils. Floating stainless steel or BUNA N, the other wetted parts are stainless steel. Only be equipped with reed contact switch allows you to control up to two points with a single instrument. In place of the housing using a three-pin DIN connector pin wheel

**Option:** Transmitter 4+20mA reed switch chain with each 5/10/20mm resolution.  
Also available with Hart

#### Certificates and approvals:

- Custody ATEX Ex II 1/2 G EEx d IIC T6 resp. T4
- Instruments which comply with the requirements of European Directive ATEX 94/9/EC and approved:
- RINA
- Lloyd Registrer
- M.M.I.

#### ► GALLERY



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