

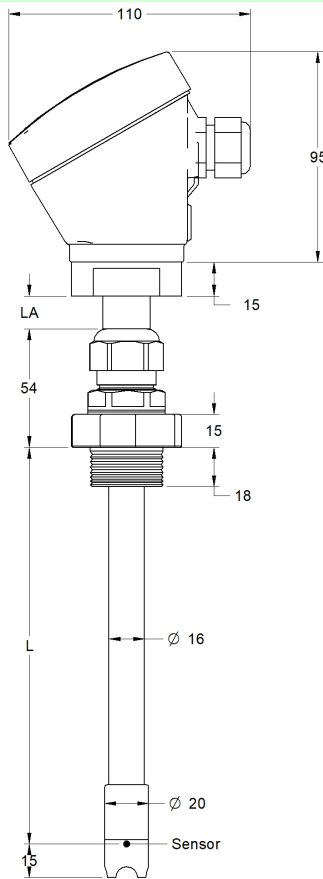


<b>Functionality</b>	
Description	Transducer that allows real-time monitoring of the level of a tank/bottle/drum and the temperature of the medium to be controlled.
Operating principle	The measured pressure corresponds to that exerted by the column of liquid on the air that remains captive in the lower part of the body of the probe.
<b>Application</b>	
	<ul style="list-style-type: none"> <li>- Level control in drums and barrels</li> <li>- Equipment for chemical laboratories</li> <li>- Equipment for agriculture (sulfatadora, ...)</li> <li>- Diesel tanks</li> <li>- Laundries, car washes</li> <li>- Cage deposits, IBC (works, provisional, ...)</li> <li>- Recycling processes</li> <li>- Control of mother tanks</li> </ul>
<b>Electrical data</b>	
Power supply	10..35 VDC
Consumption	<= 50 mA
<b>Technical data</b>	
Measuring range	Depending on model: <ul style="list-style-type: none"> <li>- 0-500 mm.w.p.</li> <li>- 0-1000 mm.w.p.</li> <li>- 0-1500 mm.w.p.</li> </ul>
Temperature	-10 .. +60 °C
Refresh time	Fixed, 100 ms.
Reading error (Height)	<ul style="list-style-type: none"> <li>- Model of 500 mm.c.a.: +/-1.25% at scale found &lt;=&gt; 12.5 mm</li> <li>- Models of 1000 and 1500 mm.c.a.: +/-1% at scale found &lt;=&gt; 30 mm</li> </ul>
Reading error (Temperature)	2°C
<b>Mechanical data</b>	
Material	PVC
Maximum pre-break pressure	10 psi (7,031 mwp)
Protection	IP67
<b>Outputs</b>	
Channel 1 (Height)	4 mA = 0 mm 20 mA = 500 mm/1000 mm/1500 mm (Depending on the chosen model)
Channel 2 (Temperature)	4 mA = -25 °C 20 mA = 85 °C
<b>Adjust mode</b>	
	Plug & Play: No adjustment required. The equipment is configured at the factory.
<b>Maintenance</b>	
	If the transducer gives erroneous readings it may be because the sensor has gotten wet at the reading point. In this case, allow it to air dry without applying pressurized air.

## Installation

- The sensor detects very low pressures; special attention must be paid not to touch or block the sensor hole with your fingers or any other material.
- While in contact with the liquid to be measured, keep the equipment vertical, avoiding wetting the sensor hole.

## Dimensions

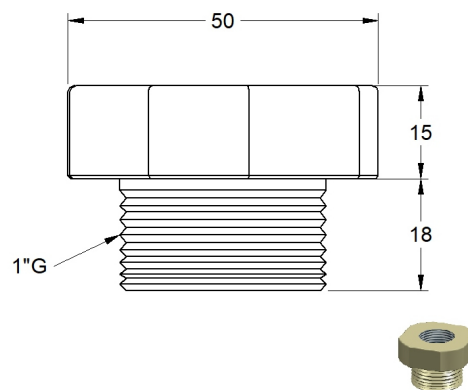


L Measure length

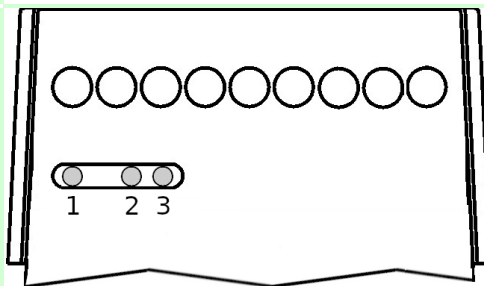
LA Adjustable length

The 15 mm between the sensor and the bottom of the probe are not considered for level measurement.

## Process connection



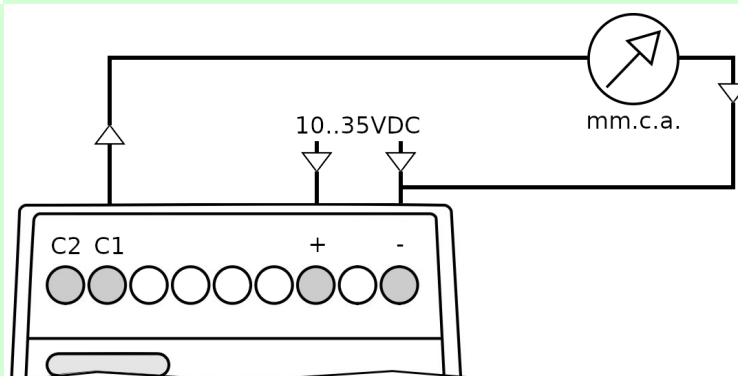
## Indicative LEDs



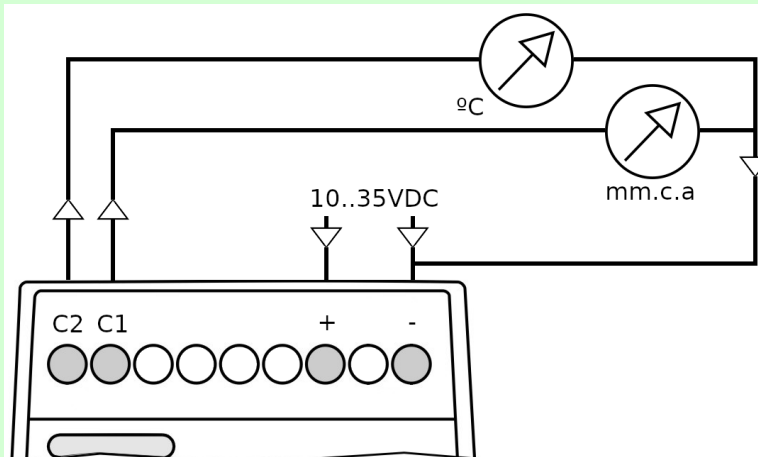
- |       |  |
|-------|--|
| Led 1 | <b>Power LED:</b><br>- Green: Correct supply voltage. Connection with the correct sensor.<br>- Red: correct supply voltage. no connection to sensor.<br>- Blue: Lights up when the level height increases by more than 1% every 100ms (Refresh Time) |
| Led 2 | <b>LED 500 mm:</b><br>- Green: Illuminates when the measured height exceeds 500 mm   |
| Led 3 | <b>LED 1000/1500mm:</b><br>- Green: Lights up when the measured height exceeds 1000 or 1500 mm, depending on the model   |

## Connection examples

1 channel



2 channel



## Order code

TPB 42 TAB	<b>TPB 42 TAB PVC 735 P06 L??? ST</b>  Where ??? can be 500, 1000 or 1500 depending on the model chosen
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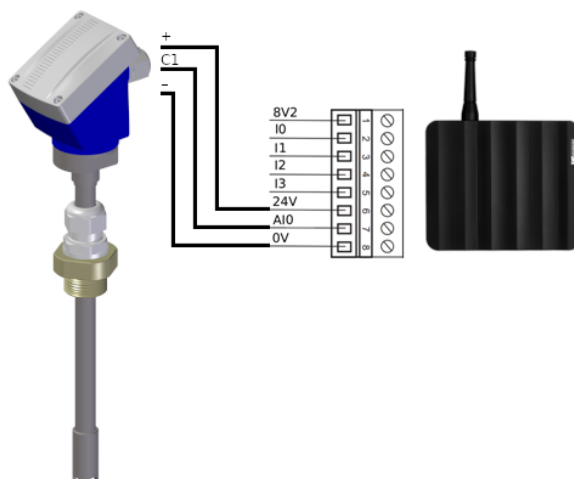
**Related products**

dePACK



dePACK has a 4-20 mA input with which to read one of the TPB channels. They also have the capacity to store, process and monitor data. The equipment has a programming environment for the automation and management of the system.

Connection



SAJ



Intensity relay for 4-20mA current loop. Provides supply voltage to the current loop, displays its value translated into real magnitudes and allows different set points to be controlled.

Connection

