

Hydrostatic level transmitter MEMPRO



- Ceramic pressure sensor
- No moving parts
- For aggressive and/or highly viscous fluids
- For contaminated and crystallizing liquids
- Accurate and reliable measurement
- Output signal 4-20 mA, 2 wires
- Wetted parts:
 - Stem: PVC, PP or stainless steel
 - Sensor: ceramic in contact with vapours
- Free from fluid viscosity or conductivity
- Scales: between 400 mm WC to 4000 mm WC
- ATEX and FLEXIBLE STEM versions available

PRINCIPE

MEMPRO level transmitters are designed for level in tank with atmospheric pressure, unclosed tank or basin.

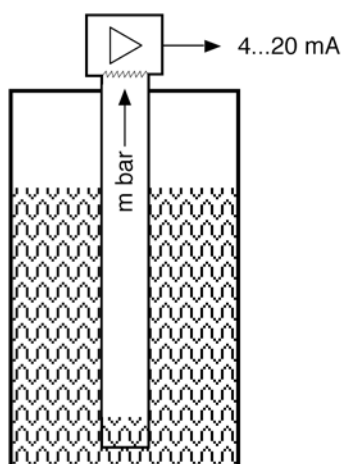
When the level increases, the fluid rises inside the tube. The pressure of air trapped inside increases as well.

This pressure corresponds to the height of the water column outside (from the bottom tube end). The ceramic pressure sensor delivers a signal 4-20 mA equivalent to the level of fluid.

This type of level transmitter is not affected with contaminated liquids or crystallizing fluids, as long as the stem is not tapped.

Venting connection integrated in the top: as an option, a venting module is connected for out-gassing and encrusting liquids refreshing; it resets the air column when media temperature changes during the process.

MEMPRO transmitters are suitable for aggressive liquids since the wetted parts are of PVC, PP or stainless steel for the stem and ceramic for the sensor. Different scales are available, with various ranges (set up with dialswitches).



TECHNICAL FEATURES

Measuring cell:	Ceramic, capacitive, temperature compensated
Sealing:	EPDM
Scales:	See table below, selectable ranges from 20 to 100%
Resolution:	< 2 mm
Accuracy/Linearity:	< +/- 0.5% full scale
Temperature limits:	PP and stainless 0 to 90°C; PVC 0 to 40°C
Materials:	Stem and process connection in PVC, PP or stainless steel 316 Pressure sensor in ceramic Housing in PBT, fibre glass reinforced, IP65 acc. EN 60 529
Supply power:	24V DC / 1.5 W
Output signal:	4 limit relays 250 V AC / 2A, 30 V DC / 1A

CE mark: In accordance with low-voltage directive (73/23/EWG) and EMC directive (89/336/EWG)

BAMO MESURES

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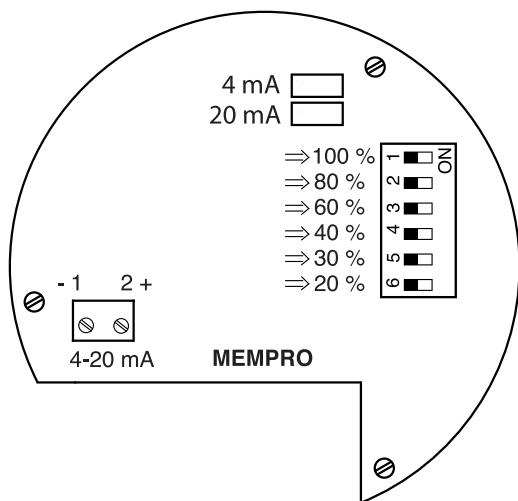
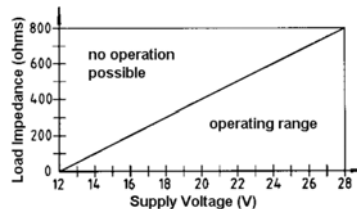
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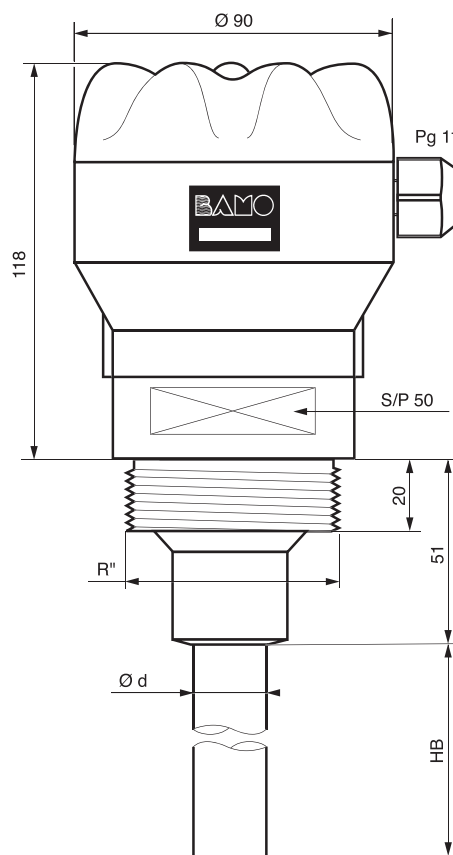
Indicators and controllers: All indicators or controllers we show on the documentation file 200+, with power supply to the sensor 12...28 V DC, 2 wires 4-20 mA, are useful for the MEMPRO level transmitters; please see in particular the converter BAMOTOP and controller indicators BIR 4000 and BIR 9000.

WIRING

Caution: the maximal resistive load circuit should be respected:



DIMENSIONS



SCALES

The DIPswitches allow choosing on site a range between 20 and 100% of the full scale.

Sensor type 2 100% = 2500 mm WC	Sensor type 4 100% = 4000 mm WC	DIP Switch
400 700 mm	700 1200 mm	DIP 6 = ON
500 1100 mm	800 1800 mm	DIP 5 = ON
700 1400 mm	1200 2200 mm	DIP 4 = ON
800 2000 mm	1500 3200 mm	DIP 3 = ON
1400 2500 mm	2000 4000 mm	DIP 2 = ON
1600 2500 mm	2400 4000 mm	DIP 1 = ON

CODE NUMBERS

	PVC	PPH	Stainless steel
Connection	2"	2"	1"
Ø Tube mm	Ø 20	Ø 20	Ø 15
Measuring range			
0/2500 mm	592 130	592 230	592 510
0/3000 mm	-	-	592 530
0/4000 mm	592 140	592 240	-

Before manufacturing, we need the HB length specified on the order.

OPTION

Venting connection integrated: As an option, a venting module is connected for out-gassing and encrusting liquids refreshing; it also resets the air column when media temperature changes during the process.

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