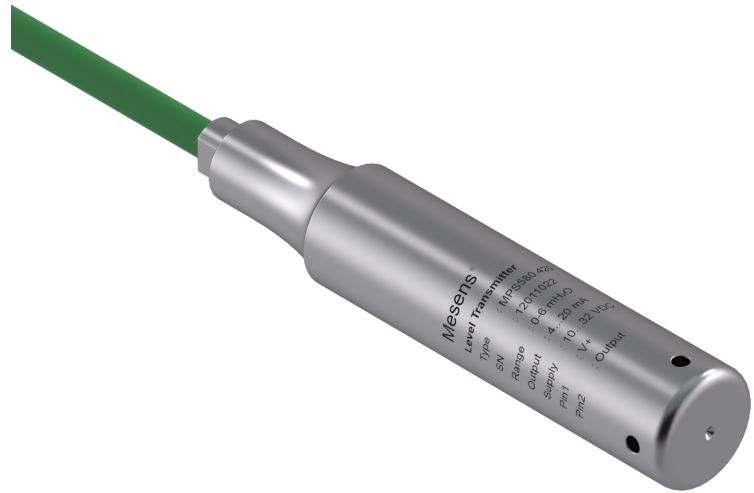


# Submersible Level Transmitters

## MPS580



LIQUID



## OVERVIEW

### Operation

MPS580 series submersible transmitters are specifically designed for depth and level measurements of groundwater wastewater, and sea water.

Relatively low water levels can be measured with the MPS580 submersible level transmitter despite its 27 mm diameter. This is possible by incorporating a highly sensitive miniature silicon diaphragm with a very thin isolation membrane back filled with silicone oil.

### Application

- Irrigation
- Sewage lift stations
- Rivers
- Oceanography
- Dams
- Wells

### Features

- Compact design
- Protection type IP68 (up to 250m depth)
- Corrosion resistant stainless steel design
- Wide measuring range
- Simple installation
- Various output signal
- PE, PUR, FEP sheathed cable with inner ventilation

## OPERATING DATA

<b>Temperature Limit</b>	-20...+70°C -20...+120°C with electronic junction box
<b>Compensated Temp. Limit</b>	0...70°C
<b>Stability</b>	<0.1% of FS/year
<b>Accuracy</b>	±0.5% FS (Base) ±0.2% FS as optional
<b>Over Pressure</b>	FS range up to 1,6 mH2O- 2x Above 1,6 to 100 mH2O - 3x Above 100 mH2O - 2x
<b>Enclosure</b>	IP68
<b>Weight</b>	0,7 kg without cable
<b>Hysteresis, Repeatability</b>	0,05% of FS

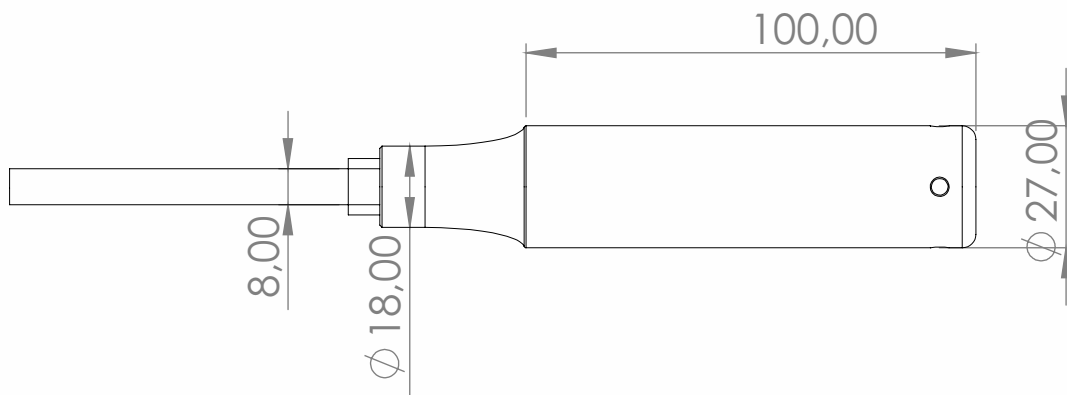
## MEASURING RANGES

<b>Measuring Range</b>	0...250 m H <sub>2</sub> O
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## MATERIALS

<b>Body</b>	AISI304 standard AISI316L, PTFE, PVC as optional
<b>Diaphragm</b>	AISI316L standard Ceramic, flush as optional
<b>Cable</b>	PE standard PUR, FEP as optional

## TECHNICAL DRAWINGS AND DIMENSIONS



Unit is mm\*

## ELECTRICAL DATA

**Output** 2 wires, 4-20 mA  
0-5 VDC, 0-10 VDC as optional (Supply should be min 14 VDC)

**Power Supply** 10-32 VDC

## WIRING

4-20 mA		0-10 VDC or 0-5 VDC	
Cable Colour	Description	Cable Colour	Description
Red	Supply V+	Red	Supply V+
Blue	Output +	Blue	Supply V-
		Yellow	Output +

## MEASURING RANGES

Code	Range	Code	Range	Code	Range
001	0...1 m H2O	006	0...10 m H2O	011	0...100 m H2O
002	0...1,6 m H2O	007	0...16 m H2O	012	0...160 m H2O
003	0...2,5 m H2O	008	0...25 m H2O	013	0...250 m H2O
004	0...4,0 m H2O	009	0...40 m H2O	XXX	Special Ranges
005	0...6.0 m H2O	010	0...60 m H2O		

## ■ OPTIONS, ELECTRONIC

### ■ BAB100.L

<b>Inputs</b>	
<b>Analog</b>	4...20 mA,
<b>Output</b>	
<b>Analog</b>	4...20 mA, 0-5 VDC, 0-10VDC selectable
<b>Digital</b>	4x SPDT relay, 5A max.
<b>Optional Output Modules</b>	2x 4-20 mA, 5x SPDT or others
<b>Display</b>	
<b>Type</b>	4.3" TFT full graphic colour display
<b>Resolution</b>	480x272 pixel resistive touchscreen
<b>Refresh rate</b>	Fast or user selectable ( 1...99 sec.)
<b>Programming</b>	By touch-screen or push-button
<b>Power Requirements</b>	
<b>For Panel Mount</b>	24VDC ±10%
<b>For Wall Mount</b>	24VDC ±10% or 100...240VAC
<b>Max Power Consumption</b>	DC: <5W / AC: 20VA
<b>Enclosure</b>	
<b>Connections</b>	Removable screw terminal blocks
<b>Dimensions</b>	144x144x94 mm DIN standard
<b>Material</b>	PC
<b>Protection</b>	IP65, Front
<b>Ambient Temperature</b>	
<b>Operating Temp</b>	-20...+70°C
<b>Storage Temp</b>	-30...+80°C
<b>Max. Humidity</b>	80%, non-condensaing
<b>Measurement Units</b>	
<b>Metric</b>	lt, kg, m3, mm, cm, m
<b>Imperial</b>	inch, feet
<b>Other</b>	
<b>Non-Volatile Memory</b>	All programmed settings are stored in non-volatile memory for a minimum of five years if power is lost.
<b>Recalibration</b>	All ranges are calibrated at the factory. Recalibration is recommended at least every 12 months.



