

MPS585

Hydrostatic Level Transmitter



OVERVIEW

Operation

MPS585 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 MPS585 submersible level transmitter despite its 19 mm diameter.

Features

- Compact design
- Protection type IP68 (up to 200m depth)
- Corrosion resistant stainless steel design
- Wide measuring range
- Simple installation
- Various output signal

Application

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



OPERATING DATA

Temperature Limit

-40...+85°C
-40...+120°C with electronic junction box

Stability

<0.2% of FS/year

Accuracy

±0.5% FS

Over Pressure

FS range up to 1,6 mH2O - 2x
Above 1,6 to 100 mH2O - 3x
Above 100 mH2O - 2x

Enclosure

IP68

Weight

0,4 kg without cable

Hysteresis, Repeatability

0,05% of FS

MEASURING RANGES

Measuring Range

0...1...500 m H2O

MATERIALS

Body

AISI304 standard
AISI316L, PTFE, PVC as optional

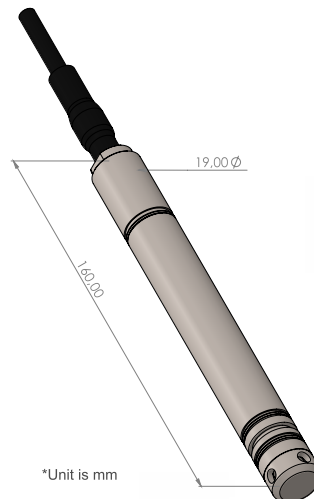
Diaphragm

AISI316L standard
Ceramic, flush as optional

Cable

PVC standard
PUR, FEP, PE as optional

TECHNICAL DRAWINGS AND DIMENSIONS



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...200 m H2O
004	0...4,0 m H2O	009	0...40 m H2O	014	0...500 m H2O
005	0...6.0 m H2O	010	0...60 m H2O	XXX	Special Ranges



OPTIONS, ELECTRONIC

■BAB100.L

Inputs Analog

4-20 mA

Output Analog

4...20 mA, 0-5 VDC, 0-10VDC selectable

Digital

4x SPDT relay, 5A maximum

Optional Output Modules

2x 4-20 mA, 5x SPDT or others

Display Type

4.3" TFT full graphic colour display

Resolution

480x272 pixel resistive touchscreen

Refresh Rate

Fast or user selectable (1...99 sec.)

For Panel Mount

24VDC $\pm 10\%$

Maximum Power Consumption

DC: <5W / AC: 20VA

Dimensions

144x144x94 mm DIN standard

Protection

IP65, Front

Storage Temperature

-30...+80°C

Metric

lt, kg, m3, mm, cm, m

Non-Volatile Memory

All programmed settings are stored in non-volatile memory for a minimum of five years if power is lost.



Programming

By touch-screen or push-button

For Wall Mount

24VDC $\pm 10\%$ or 100...240VAC

Connections

Removable screw terminal blocks

Material

PC

Operating Temperature

-20...+70°C

Maximum Humidity

80%, non-condensing

Imperial

Inch, feet

Recalibration

All ranges are calibrated at the factory. Recalibration is recommended at least every 12 months.



ORDERING

Model	
MPS585	Hydrostatic Level Transmitter
Output	
420	4-20 mA
010	0-10 VDC
Measurement Range	
XX	Please look at the "Measuring Ranges Table" for code
Cable Material	
P	PVC
U	PUR
S	Silicone
E	PE
Cable Length	
XX	Please fill direct as meter (005 means 5 meter)

