submersible level transmitters
Accuracy 0.5%

MPS580 Series

Description

MPS580 series submersible transmitters are specifically designed for depth and level measurements of groundwater, wastewater, and sea water. Typical applications are wells, dams, irrigation, sewage lift stations, rivers and oceanography.

The stainless steel housing will satisfy many applications. PTFE body is also ideal in brackish or sea water, or other chemical environments unsuitable for stainless steel.

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.

Features

- Compact design
- Protection type IP 68 (up to 200m depth)
- Corrosion resistant stainless steel design
- PVC, PUR, PE shealted cable with inner ventilation
- Option: PTFE Body for corrosive liquids

Measuring Ranges

<table>
<thead>
<tr>
<th>Code</th>
<th>Range</th>
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<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>0…1 m H2O</td>
<td>006</td>
<td>0…10 m H2O</td>
<td>001</td>
<td>0…100 m H2O</td>
</tr>
<tr>
<td>002</td>
<td>0…1.6 m H2O</td>
<td>007</td>
<td>0…16 m H2O</td>
<td>011</td>
<td>0…100 m H2O</td>
</tr>
<tr>
<td>003</td>
<td>0…2.5 m H2O</td>
<td>008</td>
<td>0…25 m H2O</td>
<td>012</td>
<td>0…160 m H2O</td>
</tr>
<tr>
<td>004</td>
<td>0…4.0 m H2O</td>
<td>009</td>
<td>0…40 m H2O</td>
<td>013</td>
<td>0…200 m H2O</td>
</tr>
<tr>
<td>005</td>
<td>0…6.0 m H2O</td>
<td>010</td>
<td>0…60 m H2O</td>
<td>XXX</td>
<td>Special Ranges</td>
</tr>
</tbody>
</table>

MPS580 Series

Technical Specification

Accuracy
±0.5% FS (Base)
±0.25% FS (Option, model no: MPS581)  

Overpressure
Full scale ranges up to 1.6 m H2O – 2x
Above 1.6 to 100 mH2O - 3x
Above 100 mH2O – 2x

Operating Temperature Range
-20° to +70° C

Compensated Temperature Range
0° to + 70° C

Electrical
2-wire, 4-20 mA, 10-32 VDC power
Option : 0-5 VDC or 0-10 VDC*
*Supply should be 15 VDC min.

Body
Stainless Steel AISI 316
Option : PTFE

Cable
PVC standard, PUR, PE, Silicone optional

Protection Degree
IP68

Weight
0.7 kg without cable

Hysteresis, Repeatability
0.05% of FS

Stability
0.2% of FS/year

Ordering

MPS580 . XXX . XX . XX . XX . XXX

Cable Length
Please fill direct as metre (005 means 5 metre)

Cable Material
P : PVC
U : PUR
S : Silicone
E : PE

Process Connection
XX : None

Measuring Type
01 : Relative
02 : Absolute

Measuring Range (Please see “Measuring Ranges Table”)

Output
420 : 4-20 mA
010 : 0-10VDC
MPS580 Series

Dimensions