

# P3xx / PD3xx / P4x

## HYDROSTATIC LEVEL SENSORS



### P3xx



P3xx works by measuring the water pressure which is proportional to the water level in a tank.

The output is a standard two-wire, 4-20 mA current loop.

The sensor needs an **air isolated mounting** method. The position of the sensor should be above the highest water level.

### PD3xx



PD3xx works by measuring the water pressure which is proportional to the water level in a tank.

The output is a standard two-wire, 4-20 mA current loop.

Stainless Steel diaphragm is compatible with chemicals used in textile finishing industry, which **enables this sensor to be mounted directly in the process**. This approach eliminates recalibration problems related with bubbling type air isolated sensors.

### P4x



P4x works by measuring the water pressure which is proportional to the water level in a tank.

The output is a standard two-wire, 4-20 mA current loop.

P4x needs an **air isolated mounting** method. It is mounted to the DIN-rail in the panel. The position of the sensor should be above the highest water level.

| Input                 | <b>P300</b> 0-100 mBar<br><b>P320</b> 0-200 mBar<br><b>P330</b> 0-300 mBar<br><b>P340</b> 0-400 mBar<br><b>P350</b> 0-500 mBar | <b>PD300</b> 0-100 mBar<br><b>PD320</b> 0-200 mBar<br><b>PD330</b> 0-300 mBar<br><b>PD340</b> 0-400 mBar<br><b>PD350</b> 0-500 mBar | <b>P40</b> 0-100 mBar<br><b>P42</b> 0-200 mBar<br><b>P43</b> 0-300 mBar<br><b>P44</b> 0-400 mBar<br><b>P45</b> 0-500 mBar |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Media Isolation       | Air                                                                                                                            | 316 SS diaphragm                                                                                                                    | Air                                                                                                                       |
| Output                | 4-20 mA                                                                                                                        | 4-20 mA                                                                                                                             | 4-20 mA                                                                                                                   |
| Excitation Voltage    | 24 V DC (18-30 V DC)                                                                                                           | 24 V DC (18-30 V DC)                                                                                                                | 24 V DC (18-30 V DC)                                                                                                      |
| Load Driving (max)    | 500 Ohm (24 V DC)                                                                                                              | 500 Ohm (24 V DC)                                                                                                                   | 500 Ohm (24 V DC)                                                                                                         |
| Operating Temperature | 0 - 60 °C                                                                                                                      | 0 - 60 °C (environment)<br>0 - 100 °C (media-diaphragm)                                                                             | 0 - 60 °C                                                                                                                 |
| Over Pressure         | 750 mBar                                                                                                                       | 600 mBar (PD300/320)<br>1500 mBar (PD330/340/350)                                                                                   | 750 mBar                                                                                                                  |
| Linearity             | < 1%                                                                                                                           | < 1%                                                                                                                                | < 1%                                                                                                                      |
| Mechanical Connection | 1/4" BSP                                                                                                                       | 1/2" BSP                                                                                                                            | Rail Type                                                                                                                 |
| Weight                | 145 gr                                                                                                                         | 200 gr                                                                                                                              | 80 gr                                                                                                                     |
| Cable Length          | 2 m                                                                                                                            | 2 m                                                                                                                                 | 2 m                                                                                                                       |
| Environmental Rating  | IP65                                                                                                                           | IP65                                                                                                                                | IP40                                                                                                                      |

Sealing O-ring: EPDM

Tubing Diameter: 6 mm

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