Pressure sensors for gas and liquid pressure

**PW3 RV**  
Art.Nr.: 69.25.xx*  
Water pressure sensor for level measurement with mechanical solid body and geomembrane filter to protect against suspended particles

**PF3 S**  
Art.Nr.: 69.28.xx*  
Gas and liquid pressure sensor connected to bulkhead plates with hydraulic union

**PF3 P**  
Art.Nr.: 69.27.xx*  
Gas and liquid pressure sensor with pressure gauge union and vent screw for sensor pre-chamber

**PW4 RV**  
Art.Nr.: 69.15.xx*  
Water pressure sensor for level measurement with mechanical solid body and geomembrane filter with maximum filter area

**PW3 SV**  
Art.Nr.: 69.26.xx*  
Water pressure sensor for level measurement with mechanical pre-filter and replaceable geomembrane filter for suspended particles

**PW22 SW**  
Art.Nr.: 69.51.xx*  
Water level sensor for well and level loggers

**PP3 P**  
Art.Nr.: 69.20.xx*  
Pore water pressure sensor with ring filter made of sintered metal and maximum external diameter of 40 mm

**PP3 SS**  
Art.Nr.: 69.22.xx*  
Pore water pressure sensor with end face filter made of sintered metal with limited service life

**PP3 SK**  
Art.Nr.: 69.23.xx*  
Pore water pressure sensor with ceramic end face filter for cohesive soils

**PP22 SS**  
Art.Nr.: 69.50.xx*  
Lightweight pore water pressure sensor with diameter of 22 mm and fully encapsulated

*Available in various designs

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Pressure sensors for pore water

**PP3 RS E**  
Art.Nr.: 69.10.xx*  
Pore water pressure sensor with ring filter made of sintered metal with threaded connection for press-in sleeve

**PP4 RS**  
Art.Nr.: 69.12.xx*  
Pore water pressure sensor with ring filter made of sintered metal and maximum external diameter of 40 mm

**PP3 RS**  
Art.Nr.: 69.20.xx*  
Pore water pressure sensor with small ring filter and maximum external diameter of 30 mm

**PP4 RS E**  
Art.Nr.: 69.10.xx*  
Pore water pressure sensor with ring filter made of sintered metal with threaded connection for press-in sleeve

**PP4 RS**  
Art.Nr.: 69.12.xx*  
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**PP3 RS**  
Art.Nr.: 69.20.xx*  
Pore water pressure sensor with small ring filter and maximum external diameter of 30 mm

*Px22 available only up to ≤ 3,5 bar

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*Material: V4A 1.4571  
Protection class: IP 68

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Art.Nr.: 69.28.xx*  
Gas and liquid pressure sensor connected to bulkhead plates with hydraulic union

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Gas and liquid pressure sensor with pressure gauge union and vent screw for sensor pre-chamber

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*Available in various designs

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*Material: V4A 1.4571  
Protection class: IP 68

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### Pressure sensors for gas and liquid pressure

<table>
<thead>
<tr>
<th>Model</th>
<th>Art.No.</th>
<th>Description</th>
<th>Material</th>
<th>Filter Area</th>
<th>Filter Type</th>
<th>Weight</th>
<th>Diameter Ø/Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>PW3 RV</td>
<td>69.25.xx*</td>
<td>Water pressure sensor for level measurement with mechanical solid body and geomembrane filter to protect against suspended particles</td>
<td>V4A 1.45 71</td>
<td>30x225 mm</td>
<td>40 mm</td>
<td>670 g</td>
<td></td>
</tr>
<tr>
<td>PF3 S</td>
<td>69.28.xx*</td>
<td>Gas and liquid pressure sensor connected to bulkhead plates with hydraulic union</td>
<td>V4A 1.45 71</td>
<td>30x160 mm</td>
<td>40 mm</td>
<td>650 g</td>
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<tr>
<td>PF3 P</td>
<td>69.27.xx*</td>
<td>Gas and liquid pressure sensor with pressure gauge union and vent screw for sensor pre-chamber</td>
<td>V4A 1.45 71</td>
<td>30x200 mm</td>
<td>40 mm</td>
<td>640 g</td>
<td></td>
</tr>
<tr>
<td>PW4 RV</td>
<td>69.15.xx*</td>
<td>Water pressure sensor for level measurement with mechanical solid body and geomembrane filter to protect against suspended particles</td>
<td>V4A 1.45 71</td>
<td>40x230 mm</td>
<td>57 cm</td>
<td>880 g</td>
<td></td>
</tr>
<tr>
<td>PW3 SV</td>
<td>69.26.xx*</td>
<td>Water pressure sensor for level measurement with mechanical pre-filter and replaceable geomembrane filter for suspended particles</td>
<td>V4A 1.45 71</td>
<td>40x330 mm</td>
<td>57 cm</td>
<td>920 g</td>
<td></td>
</tr>
<tr>
<td>PF22 SW</td>
<td>69.51.xx*</td>
<td>Water level sensor for well and level loggers with mechanical pre-filter made of plastic with limited service life</td>
<td>V4A 1.45 71</td>
<td>30x160 mm</td>
<td>5 cm</td>
<td>880 g</td>
<td></td>
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### Pressure sensors for pore water

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<tr>
<th>Model</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PP3 E</td>
<td>69.10.xx*</td>
<td>Pore water pressure sensor with ring filter made of sintered metal with threaded connection for press-in sleeve</td>
<td>Sintered metal</td>
<td>40x330 mm</td>
<td>57 cm</td>
<td>1745 g</td>
<td></td>
</tr>
<tr>
<td>PP4 RS</td>
<td>69.12.xx*</td>
<td>Pore water pressure sensor with ring filter made of sintered metal and maximum external diameter of 40 mm</td>
<td>Sintered metal</td>
<td>40x230 mm</td>
<td>57 cm</td>
<td>920 g</td>
<td></td>
</tr>
<tr>
<td>PP3 E</td>
<td>69.20.xx*</td>
<td>Pore water pressure sensor with small ring filter and maximum external diameter of 30 mm</td>
<td>Sintered metal</td>
<td>30x225 mm</td>
<td>57 cm</td>
<td>680 g</td>
<td></td>
</tr>
<tr>
<td>PP3 SS</td>
<td>69.22.xx*</td>
<td>Pore water pressure sensor with end face filter made of sintered metal</td>
<td>Sintered metal</td>
<td>30x160 mm</td>
<td>5 cm</td>
<td>880 g</td>
<td></td>
</tr>
<tr>
<td>PP3 SK</td>
<td>69.23.xx*</td>
<td>Pore water pressure sensor with ceramic end face filter for cohesive soils</td>
<td>Ceramic</td>
<td>30x160 mm</td>
<td>5 cm</td>
<td>880 g</td>
<td></td>
</tr>
<tr>
<td>PP22 SS</td>
<td>69.30.xx*</td>
<td>Lightweight pore water pressure sensor with diameter of 22 mm and fully encapsulated</td>
<td>Sintered metal</td>
<td>22x160 mm</td>
<td>2 cm</td>
<td>250 g</td>
<td></td>
</tr>
</tbody>
</table>

*Available in various designs*
Technical data / variants

Pore water, gas and liquid pressure sensors

Add-ons and finishes

Resistance to seawater and brackish water 1.4439 or similar

Environmental protection: Gel pad to protect the membrane against aggressive chemicals and extreme pH values

Climate tested: If required, we can prepare a temperature test for your batch or individual sensor to provide a precise temperature quotient for your evaluation.

* PW4 RF only: With additional M36x1.5 union for press-in sleeve

All of our sensors are calibrated in defined environmental parameters. This calibration result is included with the actual device in the form of a comprehensive calibration sheet. More extensive calibrations can be arranged at any time.

Measurement device and Data logging

- Handheld measuring device HMG
- Handheld measuring device for vibrating wire transducer SMC
- Data logger DL
- Measurement system MCC
Technical data / variants

Pore water, gas and liquid pressure sensors

**Technical data / variants**

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**Overview of cable types**

1. PE
2. PUD
3. PE without intersheath
4. PVCA
5. High-temperature cable SIHD

**Further designs on request.**

**Measurement device and Data logging**

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- Handheld measuring device for vibrating wire transducer SMC
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