High tech miniature pressure sensors for various applications

Ø 2…6 mm
KELLER special sensors

Catheter

Medical pressure sensor

Medical catheter for a wide range of applications in the field of research. Various sizes (4F to 8F) and a modular design allow any arrangement of measuring cells.

Tip sensors

Miniature pressure probe

Designed for measuring flow rate and ram pressure in pipework. The probe can be advanced a number of metres into tight canals thanks to dimensions ranging from ø 1.33 mm to ø 2.67 mm and a highly flexible cable. Suitable for liquid and gaseous media.

Series 2mi

Miniature pressure sensor

Developed for measuring hydrodynamic and aerodynamic pressures. A silicone drum protects the measurement cell from the influence of vibrations and fast acceleration. Robust housing (ø 4.5 x 1.9 mm). Typical applications: turbine and wing profile measurements. Various designs, pressure range 1…1000 bar.
Special features

- Robust measuring cells; no damage sustained through touch or fall.
- No distortion of the signal through adjacent vessel walls or insertion.
- Outstanding measuring cell stability.
- Enables quick measurements after a switch-on period of 30 seconds as well as long-term monitoring.
- The catheter’s modular design enables virtually unlimited measurement cell arrangements and the use of your preferred catheter material.

Catheter pressure sensors

Range: +/- 400 mm Hg
Maximum pressure load: 5000 mm Hg
Sensitivity: 5 µV/V/mm Hg +/- 1%
Power supply: 5 V +/- 50% DC/AC
Zero point: < +/- 40 mm Hg
Temp. coeff. of sensitivity: typically 0.05%/K
Temp. coeff. of the zero point: typically 0.1 mm Hg/K
maximum 0.2 mm Hg/K
Non-linearity and hysteresis: < 0.5% FS
Error current: < 2 µA
Insulation: > 300 MΩ
Compensated temperature range: 20 °C to 40 °C
Bridge resistance: 3.5 kΩ nominal

Standard Specifications...

We specialise in catheters for research applications

<table>
<thead>
<tr>
<th>Size</th>
<th>Diameter</th>
<th>Possible number of pressure sensors</th>
</tr>
</thead>
<tbody>
<tr>
<td>4F</td>
<td>1.33 mm</td>
<td>1</td>
</tr>
<tr>
<td>5F</td>
<td>1.67 mm</td>
<td>2</td>
</tr>
<tr>
<td>6F</td>
<td>2.00 mm</td>
<td>3</td>
</tr>
<tr>
<td>8F</td>
<td>2.67 mm</td>
<td>6</td>
</tr>
</tbody>
</table>

Unique specimens. Made by hand to your specifications.