Table of Measuring Ranges

<table>
<thead>
<tr>
<th>Type</th>
<th>KCPA86</th>
<th>KCPA95</th>
<th>KCPA96</th>
<th>KCPA97</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low-End (-Type)</td>
<td>4,30 to 0.3 mmHg</td>
<td>0.06 to 0.006 mmHg</td>
<td>0.006 to 0.0006 mmHg</td>
<td>0.0006 to 0.00006 mmHg</td>
</tr>
<tr>
<td>Medium (-Type)</td>
<td>4,30 to 0.3 mmHg</td>
<td>0.06 to 0.006 mmHg</td>
<td>0.006 to 0.0006 mmHg</td>
<td>0.0006 to 0.00006 mmHg</td>
</tr>
<tr>
<td>High-End (+Type)</td>
<td>4,30 to 0.3 mmHg</td>
<td>0.06 to 0.006 mmHg</td>
<td>0.006 to 0.0006 mmHg</td>
<td>0.0006 to 0.00006 mmHg</td>
</tr>
<tr>
<td>High Static Pressure</td>
<td>4,30 to 0.3 mmHg</td>
<td>0.06 to 0.006 mmHg</td>
<td>0.006 to 0.0006 mmHg</td>
<td>0.0006 to 0.00006 mmHg</td>
</tr>
<tr>
<td>Range Type</td>
<td>4,30 to 0.3 mmHg</td>
<td>0.06 to 0.006 mmHg</td>
<td>0.006 to 0.0006 mmHg</td>
<td>0.0006 to 0.00006 mmHg</td>
</tr>
<tr>
<td>Remote-sealed</td>
<td>4,30 to 0.3 mmHg</td>
<td>0.06 to 0.006 mmHg</td>
<td>0.006 to 0.0006 mmHg</td>
<td>0.0006 to 0.00006 mmHg</td>
</tr>
<tr>
<td>Differential Pressure</td>
<td>4,30 to 0.3 mmHg</td>
<td>0.06 to 0.006 mmHg</td>
<td>0.006 to 0.0006 mmHg</td>
<td>0.0006 to 0.00006 mmHg</td>
</tr>
</tbody>
</table>

Pressure Gauge Types

<table>
<thead>
<tr>
<th>Type</th>
<th>KCPA10</th>
<th>KCPA20</th>
<th>KCPA21</th>
<th>KCPA22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gauge Pressure Type</td>
<td>4,30 to 0.3 mmHg</td>
<td>0.06 to 0.006 mmHg</td>
<td>0.006 to 0.0006 mmHg</td>
<td>0.0006 to 0.00006 mmHg</td>
</tr>
<tr>
<td>Remote-sealed</td>
<td>4,30 to 0.3 mmHg</td>
<td>0.06 to 0.006 mmHg</td>
<td>0.006 to 0.0006 mmHg</td>
<td>0.0006 to 0.00006 mmHg</td>
</tr>
</tbody>
</table>

No Adversity is Too Adverse for The PREX3000

Standard Specification

- **Output**: 0 to 100 kPa (+/-1.5% full scale)
- **Air consumption**: 0.5 mmHg on each side at 100% output
- **Accuracy (at 25°C)**
  - ±0.25% of span ±1% of full scale
  - ±0.5% of span ±2% of full scale
- **Dead band**: ±0.1% of span
- **Operating pressure range (PSIU)**: 0 to 50 kPa (±1% of full scale)
- **Operating temperature**: -20°C to 50°C
- **Transmitter (Atmospheric)**: --- to +10 kg/cm²
- **Weight (KCPA96)**: Approx. 0.2 kg

Example of data (Model KCPA20, Range 0-50 kPa (0-5.000 mmHg))

- **Accuracy**: ±0.25% of span ±1% of full scale
- **Dead band**: ±0.1% of span
- **Operating pressure range**: 0 to 50 kPa (±1% of full scale)
- **Operating temperature**: -20°C to 50°C
- **Transmitter (Atmospheric)**: --- to +10 kg/cm²

**Note**: Specifications are subject to change without notice. Azbil Corporation assumes no responsibility or liability for any errors or omissions in the information herein.
Higher TDR, Higher Accuracy, Higher Reliability—At a Lower Price

Sometimes, Digitalization Just Doesn’t Make Cents.

Process Control instrumentation is being increasingly dominated by digital systems, but it doesn’t always pay to jump on the bandwagon. If your plant is already pneumatic, digitalization would mean substantial investment and reinstallation of signal transmission lines and power supplies. But there is an alternative:

PREX3000
Pneumatic Devices for Today...And Tomorrow

Completely compatible with digital systems, the PREX3000 series is simpler, more economical and far more advanced than conventional pneumatic equipment.

The PREX3000 series features none of the drawbacks common to pneumatic instrumentation: no more need for costly PA converters, no more excessive space requirements, no more excessive parts inventories, no more time wasted on adjustments and maintenance.

With the PREX3000, you get higher turn-down ratio (TDR) higher accuracy, higher reliability, higher resistance to adverse environments—all at a lower cost.

Features

Higher TDR
Azbil Corporation patented vector-involute mechanism boosts TDR (ratio between the minimum and maximum spans) much higher than conventional equipment. Since it is possible to adjust the TDR to 30, the PREX3000 provides a much wider range and can thus accommodate a wider variety of applications. This makes it extremely economical to operate, as well as reducing costs for replacement spares.

Higher Reliability
The PREX3000’s body complies with IEC, NEMA and other standards. All but the low differential pressure model are welded. There are no internal pipes, thus eliminating potential deterioration with age, and the pilot relay is internal.

Simplified Zero and Span Adjustment
The vector-involute system has greatly reduced zero shift caused by span changes, and made range adjustments much easier and much faster to do.

Smaller and Lighter
The PREX3000 is smaller and 30% lighter than conventional models, typically weighing only 8kg.

Structure

Azbil Corporation’s Patented Vector-Involute Mechanism
The conventional vector balance mechanism has a fixed strap and thus limits TDR. Azbil Corporation’s patented vector-involute systems adjust the position of the strap along an involute curve (shown below), thereby enabling changes in vector direction and increasing TDR. The Azbil Corporation mechanism also greatly reduces the mutual interference between zero and span adjustment.