Features

Auto Zero Shift for Diameters within 20mm(7mm)
For different diameters that are within 20mm(7mm), changing of setup is completely automatic, allowing zero set to be performed by simply providing signal input to the control unit. When the difference in diameter exceeds 20mm(7mm), the range can be measured by adjusting the stylus or replacing the attachment.

Compatible with 40 Sizes
By combining the PULCOM Σ.20 with the PULCOM V10A model that has the size shift function, 40 types of workpieces can be automatically measured.

Air Retract Mechanism
The retract mechanism moves the stylus out of the way when the unit is inserted, allowing in-process measurements to be safely performed, and insertion from the axial direction of the cylinder in order to perform post-process measurements.

Measurements of Workpieces with Notches
Workpieces with splines and other types of notches can be measured.

Based on PULCOM Σ
The internal mechanisms on the PULCOM Σ.20 have the same high precision as the PULCOM Σ. In addition, the same attachments can be used since it has exactly the same outer appearance and dimensions.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Σ 8</th>
<th>Σ 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main applications</td>
<td>Outer diameter size shift</td>
<td>Inner diameter size shift</td>
</tr>
<tr>
<td>Continuous measuring range</td>
<td>7mm</td>
<td>20mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>4.5 mm (one side)</td>
<td>12.5 mm (one side)</td>
</tr>
<tr>
<td>Measuring force</td>
<td>0.75 N (zero point)</td>
<td>0.6～2.8N</td>
</tr>
<tr>
<td>Air retract source</td>
<td>0.3～0.5MPa</td>
<td></td>
</tr>
<tr>
<td>Outputs (number of pins)</td>
<td>1 (6P)</td>
<td>2 (6P×6P)</td>
</tr>
<tr>
<td>Head weight</td>
<td>Approx. 1.3kg</td>
<td></td>
</tr>
<tr>
<td>Waterproof standard</td>
<td>IP67 compliant</td>
<td></td>
</tr>
</tbody>
</table>

Abbreviations: d: Finger length, Vertical surface: Vertical surface used as standard for mounting, Horizontal surface: Horizontal surface used as standard for mounting (horizontally oriented), Post: Post process measurements
Applications

Multi-Stage Outer Diameter Measurements (including non-continuous outer diameters)

By combining the PULCOM Σ 20 with the size shift function, several different types of outer diameters can be measured by one head, and non-continuous surfaces (A, C) can be measured. Measurements can be performed without changing setup for diameters that differ up to 20mm (7mm).

Outer Appearance/Dimension Diagram

Product Code                   Product Name
0947613            PULCOM Σ 8-OD-AR (E-TS-8092B-P3)
0947614            PULCOM Σ 8-OD-AR (E-TS-8092B-P6)
0947615            PULCOM Σ 8-OD-AR (E-TS-8096B-P3)
0947616            PULCOM Σ 8-OD-AR (E-TS-8096B-P6)
0947073            PULCOM Σ 8-OD-AR (E-TS-8162B-P3)
0947074            PULCOM Σ 8-OD-AR (E-TS-8162B-P6)
0940863            PULCOM Σ 8-OD-AR (E-TS-8166B-P3)
0940864            PULCOM Σ 8-OD-AR (E-TS-8166B-P6)
0940886            PULCOM Σ 8-OD-SAR (E-TS-8192B-P3)
0940889            PULCOM Σ 8-OD-SAR (E-TS-8192B-P6)
0940909            PULCOM Σ 8-OD-SAR (E-TS-8196B-P3)
0940891            PULCOM Σ 8-OD-SAR (E-TS-8196B-P6)
0940813            PULCOM Σ 8-ID-AR (E-TS-8082B-N3)
0940814            PULCOM Σ 8-ID-AR (E-TS-8082B-N3)
0940820            PULCOM Σ 8-ID-AR (E-TS-8086B-P3)
0940822            PULCOM Σ 8-ID-AR (E-TS-8086B-P6)
0940816            PULCOM Σ 8-ID-AR (E-TS-8088B-N3)
0940817            PULCOM Σ 8-ID-AR (E-TS-8088B-N6)