Digital Caliper

ABS Digimatic Caliper

CD-AX/APX Series
Thanks to the adoption of the electromagnetic induction type ABS encoder, this caliper can be used without concern for contamination on the scale face during measurement.

The ABS (absolute) scale requires no origin setting after power-on and also has no limit to response speed.

A new series of cost-effective standard Digimatic caliper born of Mitutoyo's encoder technologies developed over the last 30 years. Now equipped with the same AOS (Advanced Onsite Encoder) induction type encoder used in top-of-the-line ABS coolant-proof calipers.
The slider provides smooth, stable and comfortable operation.

- A battery life of approximately 3.5 years has been achieved under normal use through the adoption of Mitutoyo’s ABSOLUTE scale.
- The slider configuration features an ergonomic, thumb-friendly shape.
- Step-measurement capable.
- Carbide-tipped jaw models are ideally suited to the measurement of rough-machined workpieces, castings, grindstones, etc.
- The data output function allows integration into statistical process control and measurement systems.
Common Specifications

-Resolution: 0.01mm or 0.0005"/0.01mm
- Repeatability: 0.01mm
- Power supply: Button-type silver oxide battery SR44 (No. 939882), 1 piece supplied as standard (The standard supplied battery is for the monitor.)
- Battery life: Approx. 3.5 years under normal use
- Maximum response speed: Unlimited

Functions

ABS (absolute) measurement function:
Enables absolute-mode measurement to be started without any zero-setting after switch-on. The absolute origin position can be set, or reset, with the ORIGIN switch at any time.

INC (incremental) measurement function:
Enables the display value to be set to zero, temporarily, at the current slider position to enable easy incremental-mode measurement.

Low battery alarm:
Indicates (with a ‘B’ symbol in the display) that the battery needs replacing. This allows timely battery replacement before the caliper becomes unusable.

External output function:
Allows measurement data to be exported using the optional data cable.

Hold function:
Allows a display value to be held using the optional Data Hold unit. (This function cannot be used along with the external output function.)

Optional Accessories

These accessories are available only for those models with the measurement data output function.

- Data Hold unit
  Order No. 999143
- USB direct input tool
  USB-ITN-C (2m): Order No. 06ADV380C
- Connecting cable
  Used for input tool DP-1VR or MUX-10F.
  1m cable: Order No. 999149
  2m cable: Order No. 999150
- U-WAVE-T dedicated connecting cable
  Cable for standard use: Order No. 02AZD790C
  Cable for foot switch: Order No. 02AZE140C

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External View/Dimensions Chart

<table>
<thead>
<tr>
<th>Inch</th>
<th>Order No.</th>
<th>Range</th>
<th>Accuracy</th>
<th>Mass</th>
<th>Measurement data output port</th>
<th>Thumb roller</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-150</td>
<td>500-150-30</td>
<td>0-100mm</td>
<td>±0.02mm</td>
<td>143 g</td>
<td>✔</td>
<td>✔</td>
<td>Depth bar ø1.9mm rod</td>
</tr>
<tr>
<td>0-150</td>
<td>500-154-30</td>
<td>0-150mm</td>
<td>±0.001&quot;</td>
<td>168 g</td>
<td>✔</td>
<td>✔</td>
<td>Carbide-tipped jaws for outside and inside measurement</td>
</tr>
<tr>
<td>0-150</td>
<td>500-151-30</td>
<td>0-200mm</td>
<td>±0.02mm</td>
<td>198 g</td>
<td>✔</td>
<td>✔</td>
<td>Carbide-tipped jaws for outside and inside measurement</td>
</tr>
</tbody>
</table>

Note: Product illustrations are without obligation. Product descriptions, in particular any and all technical specifications, are only binding when explicitly agreed upon.

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