ABSOLUTE Digimatic Calipers
Standard & Coolant Proof

300 mm measuring range, now with highly visible LCD!

Small Tool Instruments and Data Management
**Features**

**Easy-to-see large numbers!**
The character height on the LCD is increased to 11.0 mm to enhance visibility (Standard model: Increased by approx. 16%, IP67 model: Increased by approx. 8%, in-house comparison).

**No zero-adjustment necessary!**
Thanks to the ABS (absolute) scale, troublesome zero adjustment is eliminated.

**20 mm beam width aids stability!**
Thanks to the 20 mm beam width, the straightness of the scale is excellent and so accuracy is maintained over the whole measuring range.

**Environment-friendly battery life!**
The battery life is extended from 3.5 years to 5 years for the Standard model and from 1 year to 5 years for the IP67 model (in-house comparison). Reducing battery replacements helps to protect our environment.

**Highly resistant to water, oil, and stains!**
These calipers conform to the IP67 ingress protection level and can be used in the same harsh environments as purely mechanical calipers.

**Simple battery replacement!**
There is no screw on the battery lid. Quick battery replacement and airtightness are achieved with a click-lock lid.

**New appearance!**
These newly designed products continue the user-friendliness of the previous models with 200 mm or less measuring range.

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*1: This feature is only available on the IP67 model, an IP67 ABS coolant proof caliper.
*2: Some types of aggressive cutting oil or coolant may degrade the sealing materials over time.
Centralized data management

By connecting to U-WAVE fit ... Measurement data can be wirelessly transmitted, eliminating errors caused by handwriting notes. U-WAVE fit can be directly installed on the rear of the display of the measuring instrument without impeding the operator because U-WAVE fit has been downsized and thinned.

USB Input tool direct
USB-ITN-C
for 500-153-30/500-173-30
06AFM380C
Receiver
U-WAVE-R
02AFZ310D
Transmit unit
U-WAVE-TC
264-621
Connecting unit 02AFZ3100
USB Input tool direct
USB-ITN-A
for 500-714-20/500-764-20
06AFM380A
Connecting cable
06AFZ050

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The data logger function allows storage of up to 1,000 items of data in memory.

MeasurLink is an IoT platform for quality management that realizes “Visualization of Quality” by enabling real-time data collection from networked Digimatic gages, and centralized control and analysis.

Optional accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecting cable</td>
<td>959149 (1 m)</td>
</tr>
<tr>
<td>Hold unit</td>
<td>959150 (2 m)</td>
</tr>
<tr>
<td>Connecting cable</td>
<td>05CZ92625 (3 m)</td>
</tr>
</tbody>
</table>

MeasurLink is an IoT platform for quality management that realizes “Visualization of Quality” by enabling real-time data collection from networked Digimatic gages, and centralized control and analysis.
### Specifications

<table>
<thead>
<tr>
<th>Order No.</th>
<th>500-153-30</th>
<th>500-714-20</th>
<th>500-173-30</th>
<th>500-764-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>0 - 300 mm</td>
<td>0 - 12 in / 0 - 300 mm</td>
<td>0 - 300 mm</td>
<td>0 - 12 in / 0 - 300 mm</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.01 mm</td>
<td>0.0005 in / 0.01 mm</td>
<td>0.01 mm</td>
<td>0.0005 in / 0.01 mm</td>
</tr>
<tr>
<td>Accuracy*1</td>
<td>±0.03 mm</td>
<td>±0.0015 in / ±0.03 mm</td>
<td>±0.03 mm</td>
<td>±0.0015 in / ±0.03 mm</td>
</tr>
<tr>
<td>Repeatability</td>
<td>0.01 mm</td>
<td>0.0005 in / 0.01 mm</td>
<td>0.01 mm</td>
<td>0.0005 in / 0.01 mm</td>
</tr>
<tr>
<td>Mass</td>
<td>350 g</td>
<td>350 g</td>
<td>350 g</td>
<td>350 g</td>
</tr>
<tr>
<td>Fine adjustment</td>
<td>Thumb roller</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data output</td>
<td>Digimatic code format</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery life</td>
<td>Approx. 5 years under normal use</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scale type</td>
<td>Electromagnetic induction-type ABSOLUTE linear encoder</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. response speed</td>
<td>Unlimited</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LCD display</td>
<td>7-segment/6-digit, minus [-] sign, character height: 11.0 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Function</td>
<td>Power on/off, origin-set, ZERO/ABS, data output<em>2, data hold</em>3</td>
<td>Origin-set, automatic power on/off<em>4, data output</em>2, data hold*3</td>
<td>Power on/off, origin-set, ZERO/ABS, data output<em>2, data hold</em>3</td>
<td>Origin-set, automatic power on/off<em>4, data output</em>2</td>
</tr>
<tr>
<td>Alarm</td>
<td>Low battery voltage, Scale surface contamination, Overflow</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0 to 40 °C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-10 to 60 °C</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*1: Excluding quantizing error  
*2: By using the optional connecting cable with data switch, measurement data can be output  
*3: By using the optional data hold unit, the displayed value can be held.  
*4: Display will turn off after 20 minutes inactivity. Power is restored when the slider is moved.

### Dimensions

![Dimensions Diagram](attachment:dimensions.png)

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