Starrett®

798 Series
IP67 Electronic Caliper
USER'S GUIDE

INTRODUCTION

Starrett 798B Electronic Calipers can output measurement data to a variety of peripherals with either a Starrett DataSure® Wireless Data Collection System End Node or cable.
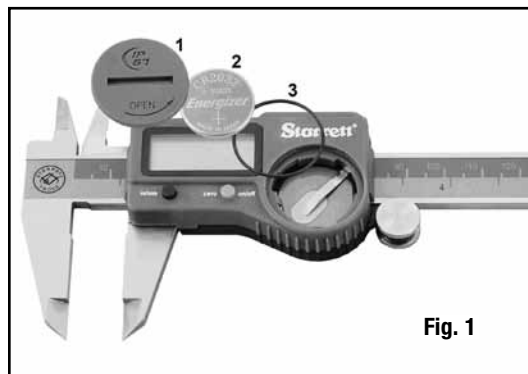
The 798A version of this tool the same features as the 7987B without output capability.

FEATURES

- Large, easy to read LCD, .310" high characters
- Induction type linear encoder system
- Heavy-duty bar and slide, 3.5mm thick
- Hardened stainless steel measuring surfaces for long life
- Fine adjustment
- Slide lock
- Accuracy meets DIN862
- Zero at any position
- Automatic shut off of display after 30 minutes of non-use
- Reactivation of display with movement of slide with no loss of position
- 6" (150mm), 8" (200mm) and 12" (300mm) sizes

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BATTERY INSTALLATION

The caliper comes with one CR2032 lithium battery, not installed. To change or install a new battery refer to **Figure 1**.

Fig. 1

First, unscrew and remove the battery cover (1) by turning it to the left ¼ turn. Remove the old battery. Next, position the rubber "O" ring (3) correctly in the bottom of the battery compartment before inserting the new battery (2) negative side (-) down. Then, re-install the battery cover (1) and lock it into position by giving it a ¼ turn to the right.

(**Note**: If the display shows "Err0" after reinstalling the battery, press the "zero on/off" button to return the tool to its normal operation.)

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OPERATING INSTRUCTIONS

Automatic OFF
The caliper will turn off (the display will go blank) after 30 minutes of no slide movement or press of a button. A one second push of either the "in/mm or "zero on/off" button will reactivate the display. Any movement of the slide will also activate the display with no loss of position.

In/mm Button
The caliper can be changed from inch mode to millimeter mode, or the reverse, with a two second push of this button. When an RS-232 cable is installed in the output slot of the 798B, the in/mm function is disabled and the button becomes a send button.

A one-second push of this button will also active the display with no loss of position.

Zero On/Off Button
If the display is off, a quick push of this button will activate the display. A one second press of the same button will also zero the tool at any position of the slide. A three second push of the button will shut the display off.

Output (798B only)
798B calipers include an output port that allows data transmission to computers or printers using the appropriate Starrett cable/adapter or Starrett DataSure® wireless interface. The output command is controlled by the in/mm button. 798A models do not include output.

Low Battery Indication
A battery symbol in the lower left corner of the display will light when the battery is getting weak indicating the battery should be changed. To replace the battery, follow the instructions listed under "Installation of Battery".

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Care and Maintenance

It is important to wipe the caliper with a lint-free cloth after exposure to moisture. Apply a very light coat of lubricant on all the mechanical parts. Do not use aggressive solvents to clean the plastic components. Do not store the instrument in areas of extreme temperature.

SPECIFICATIONS

Dust/ Water Protection:
IP67 according to IEC529
- The first number "6" identifies protection against complete ingress of dust.
- The second number "7" identifies protection against the ingress of water when submerged 1 meter deep for 30 minutes.

Ranges:
0-6"/0-150mm
0-8"/0-200mm
0-12"/0-300mm

Resolution:
0.0005"/0.01mm

*Accuracy:
±0.001"/0.02mm
(≤4"/100mm)
±0.001"/0.03mm
(>4"/100mm)
* Meets the accuracy requirements of DIN 862

Auto Shutdown:
30 minutes of non-use

Operational Temp.:
+41º - 104ºF (+5º - +40ºC)

Data Output:
(798B only) Patented non-contact USB cable

Battery:
Lithium Coin Cell 3V - CR2032 or Equivalent

Battery Life:
>3500 hours continuous use

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1 - Jaws for external measurement

2 - Jaws for internal measurement

3 - Depth measuring rod

4 - Scribing face

5 - Slide

6 - Graduated scale
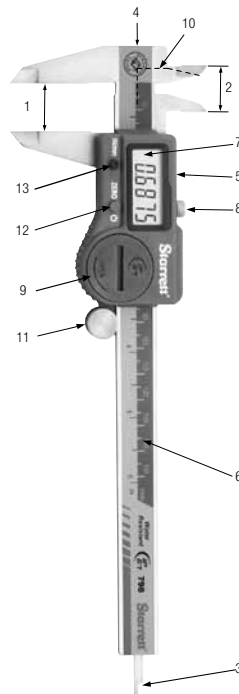
7 - LCD display

8 - Slide locking screw

9 - Battery cover

10 - Scribing reference face

11 - Fine adjustment thumb roll

12 - "Zero" set button / Power "on/off" button

13 - "IN/mm" button

NOTE: The pictures shown are illustrative; the components may vary according to the model.

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