



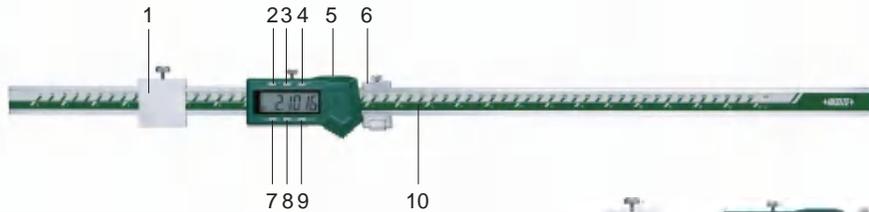
OPERATION INSTRUCTION

Universal Caliper

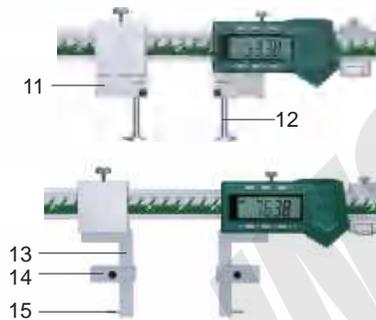
Attention:This caliper is not waterproof. If there is coolant liquid on the sticker, the reading may be incorrect. Please clean the sticker with dry cloths. If the problem is not solved, please use WD40 to clean the sticker.

Resolution: 0.01mm/0.0005"

Accuracy: ±0.05mm (0-600mm), ±0.07mm (600-1000mm)



- 1-Clamp
- 2-'+' button
- 3-'-' button
- 4-'SET' button
- 5-Data output
- 6-Fine adjustment device
- 7-'in/mm' button
- 8-'ABS' button
- 9-'ON/OFF' button
- 10-Beam
- 11-Stands
- 12-Half disk points
- 13-Measuring jaws
- 14-Depth stop
- 15-Spherical points



1. Install battery:

- Remove the battery cover(fig.1)
- Put CR2032 battery into battery house, the positive side of battery (+) should face out(fig.2)
- Close the battery cover



2. Buttons:

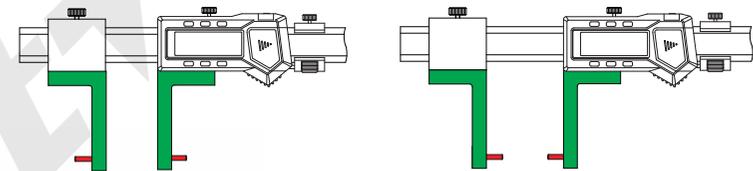
in/mm---short press(<2 sec.): for inch and mm conversion
 ABS---for absolute and relative measuring mode conversion. The normal mode is absolute measuring mode. Short press the button to enter relative measuring mode at any point (this point is called 'relative zero point'), "INC" appears and the reading is zero. In this mode, the reading is the distance to the 'relative zero point'. Press the button again to return back to absolute measuring mode.

OFF/ON---short press: to turn on/off

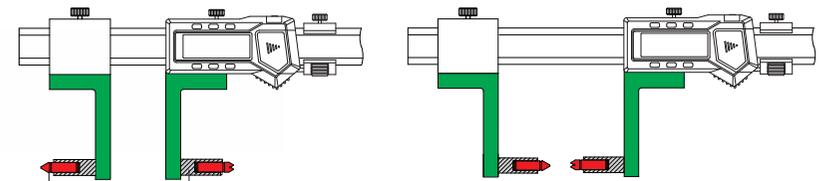
'+', '-', 'SET'---set initial reading(default initial reading is zero). Long press(>2 sec.) 'ZERO' button and "SET" blinks, at the same time long press '+' or '-' button to increase or decrease the reading, short press 'SET' button to finish setting, "SET" disappears. During absolute measurement, press 'SET' button to get the preset value.

3. Application:

Spherical points are used for internal and external measurement



Point sleeve (optional) is working with multifunctional points series 7392, ball points series 7391 and screw thread points series 7381 & 7321 to measure different shape of workpiece.



Points
Point sleeve

multifunctional points series 7392(optional)

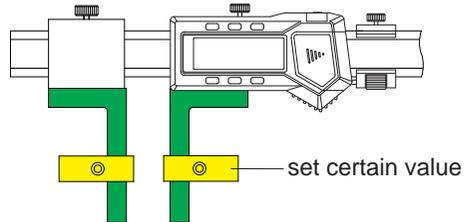
ball points series 7391(optional)



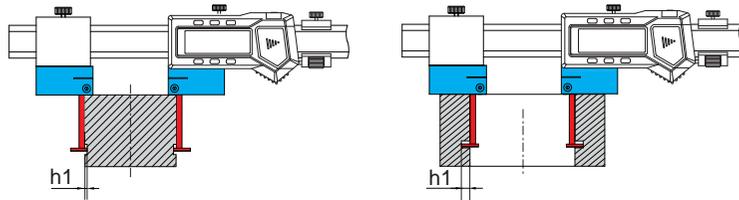
screw thread points series 7381 & 7321 (optional)



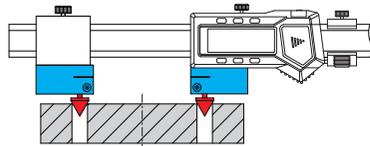
Depth stop is used for depth measurement.



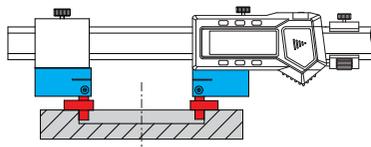
Half disk points, flat measuring face is used for external groove ($h_1 < 2.5\text{mm}$) diameter, spherical measuring face is used for internal groove ($h_1 < 7.5\text{mm}$) diameter



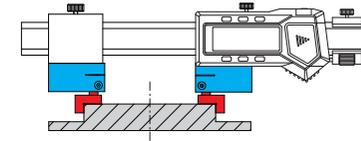
Conical points (optional) are used for center distance measurement.



Round shoulder points (optional) are used for inside diameter measurement.



Flat shoulder points (optional) are used for outside diameter measurement.



4. Measurement:

- Install the points and accessories according to the measured workpiece
- Calibrate the caliper using a micrometer or a standard gage of approximately the measured size, setting the initial value
- Measure the workpiece and read the reading

5. Optional accessory: data output cable (code 7302-,7315-,7305-).

6. One battery can last for one year use. If caliper is not be used for more than 3 months, please remove the battery. Otherwise, liquid may leak from the battery and damage the caliper.

7. If digits do not change when buttons are pressed, take out battery and put it back after 1 minute.

8. Working temperature is 0-40°C/32-104°F, relative humidity should not exceed 80%.