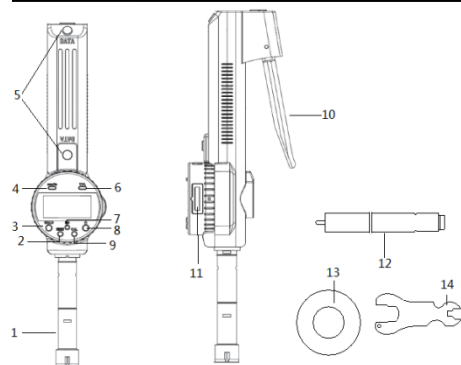


GRIP THREE POINT INTERNAL GAGE



1	Measuring Head
2	PRESET Button
3	DATA Button
4	IN/MM-MODE Button
5	DATA Button
6	TOL Button
7	INC Button
8	ON/OFF Button
9	CAL Button
10	Grip
11	Battery cover
12	Extension Rod
13	Setting Ring
14	Spanner

Technical Specifications

- Resolution: 0.001mm /.00005"
- Bluetooth data output
- Power: Battery 3V, CR2450
- Working temperature: 0~+40℃
- Relative humidity: <80%

Operating

➤ IN/MM-MODE

Press the "IN/MM-MODE" button Metric/Inch measuring unit conversion.

➤ TOL

- Set the first tolerance:
 - Press and hold the "TOL" button until "TOL" flashes.
 - Continue to press and hold the "TOL" button. Once "TOL" stops flashing, the first digit starts flashing.
 - Keep holding the "TOL" button and the next digit will flash. Don't release the button until the desired digit appears.
 - For a short press on the "TOL" button, the flashing digit will increase by one until the desired value is reached.
 - Repeat steps c and d until all the data on the LCD are as desired. Now, the first tolerance setting is completed. Proceed to set the second tolerance.
- Set the second tolerance:
 - Press and hold the "Preset" button until "TOL" flashes.
 - Short press the "TOL" button to display the second tolerance data. Then, continue holding down the "TOL" button and the first number starts flashing. Follow the steps for setting the first tolerance to complete the second tolerance setting.
 - After the second tolerance setting is completed, hold down the "preset" button until the "TOL" flashes. Briefly press the "TOL" button to exit the tolerance setting.

- Short press "TOL" key will enter the tolerance measuring mode. When the measuring value is between up and lower tolerance, the LCD will display "o"; when the measuring value is bigger than up tolerance, the LCD will display "▲"; when the measuring value is smaller than lower tolerance, the LCD will display "▼".
- Short press "TOL" key will exit the tolerance measuring mode.
- **DATA**
 - Long press of the "DATA" button initiates Bluetooth connection.
 - Short press of the "DATA" button outputs the displayed data.
- **INC**

Pressing the "INC" button enables conversion between absolute measurement simulation and relative measurement simulation.
- **ON/OFF**

Pressing the "ON/OFF" button will turn on or off the caliper.
- **PRESET**

Ensure that the caliper is in the ABS measuring mode as this function will not work in the INC mode.

 - Press and hold "Preset" button until "P" flashes to enter the preset mode.
 - Press and hold "Preset" button, "P" stops flashing and the first digit starts flashing.

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GRIP THREE POINT INTERNAL GAGE

OPERATION MANUAL

AI20G12-Y

IMPORTANT NOTICE

- Clean all spindle and body prior to use.
- Clean the battery before installation.
- Zero set the indicators after reinstalling the battery.

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GRIP THREE POINT INTERNAL GAGE

- c. Press and hold “Preset” button the next digit will flash, and not release the button until it is the digit desired.
- d. Short press “Preset” button, the flashing digit +1 until it is desired.
- e. Repeat steps c and d until all the data on LCD are desired.
- f. Press and hold “Preset” button until “P” flashes.
- g. Press “Preset” button, the data on LCD will be set to the preset.

➤ CAL

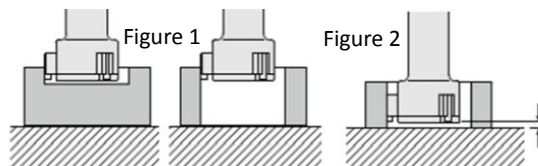
Press the “CAL” button to display the preset value.

Zero setting

- Remove any dirt or dust from the measurement surfaces of the calibration gage and the product.
- Set a measuring length slightly less than the size of the gage by pull the handle of the product, and then slowly insert the product into the gage.
- Bring the contact points gently into contact with the inside of the gage by release the handle
- Read the measured value, and if the reading matches the size of the gage, then the reference point setting is complete.
- If the reading is different, repeat the above process until indicator value is identical with the setting ring.
- **Remark: Need to zero setting again after install or remove extension rod.**

Reference Point Setting

- Be sure to follow the procedure below to confirm and set the reference point prior to measuring. - When setting the reference point for this product, make sure to use a calibrated gage.
- Remove any dirt or oil from the measuring surfaces of the gage and product prior to setting the reference point.
- Due to the product mechanism, the measured value will differ depending on whether the entire surface of the contact point or only its edge is used for measurement. When measuring, use the same conditions when setting the reference point.
- Use the same orientation and conditions when measuring and setting the reference point. (Refer to Figure 1 if measuring with the contact point edge in a blind hole.)
- Use the same orientation and conditions when measuring and setting the reference point. (Refer to Figure 1 if measuring with the contact point edge in a blind hole.)
- Do not ground the bottom of the measuring head when setting the reference point or measuring (Figure 2).



Bluetooth operation

Before utilizing the Bluetooth function, ensure that the language in the input method software of the receiving equipment is set to English mode.

• Matching

When using the measuring tool with a receiving device via Bluetooth for the first time, they need to be matched for operation. Turn on the Bluetooth searching function of the receiving device (such as a computer or phone). Simultaneously, long-press the “DATA” button on the measuring tool for more than 3 seconds until [📶] on the screen twinkles slowly. This indicates that the measuring tool has entered the search mode. Release the “DATA” button and wait for the receiving equipment to search for the Bluetooth Keyboard device. Then, click to connect and wait for the connection between the measuring tool and the device. After connecting, [📶] will be displayed on the screen continuously. If a connection cannot be established within 5 minutes, [📶] will disappear and the measuring tool will automatically quit the search mode. If connection is required again, repeat the above actions.

• Send data

After connecting, short press the “DATA” button to send data to the receiving device (computer or phone). At the same time, [📶] the screen will twinkle to remind that data has been sent. When the measuring tool and receiving device are matched and connected, try to keep them as close as possible to avoid Bluetooth interference and interruption. If the measuring tool does not send data for more than 15 minutes, the Bluetooth will be automatically turned off to save power.