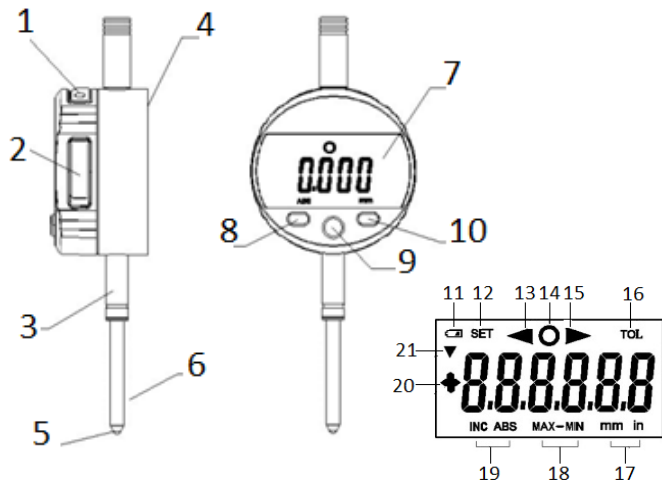


IP65 DIGITAL INDICATORS



IP65 DIGITAL INDICATORS

OPERATION MANUAL



1	Battery holder	12	SET mode icon
2	Data output Port	13	Out of lower tolerance icon
3	Stem	14	Within tolerance icon
4	Flat back	15	Out of upper tolerance icon
5	Contact point	16	TOL mode icon
6	Spindle	17	mm/INCH icon
7	LCD	18	MAX /MIN mode icon
8	Mode Button	19	ABS/INC icon
9	SET Button	20	Plus/Minus icon
10	ZERO/ON/OFF	21	Measuring direction icon
11	Low battery icon		

Technical Specifications

- Resolution: Inch: .0005"/.00005", Metric: 0.01mm/0.001mm
- Power: One silver oxide battery CR2032, 3V
- Protection class IP65.
- Working temperature: 0~ +40 °C
- Relative humidity: <80%
- Storage temperature: -10°C~ +60°C
- Contact point: carbide ball (#4-48UNF).

Operation

➤ Zero Setting

- When in ABS mode, press Zero/On.
- The displayed value will change to zero unless a preset value has been established.

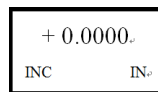
➤ Absolute and Incremental Modes

- **Absolute Mode:** The absolute mode indicates that the measurement is to the zero that has been previously set.

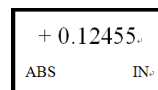
- **Incremental Mode:** The incremental mode is provided as a temporary zero at any point within the measuring range. The Absolute zero previously set will be restored when the mode is returned to absolute.

• Switching between ABS and INC Modes

Short press the [SET] button to change the display to "INC" (Incremental Mode). The reading will change to zero.



- Short press the [SET] button again to return to "ABS" (Absolute Mode). The reading will be returned to the original value.



SPI 40G03

IMPORTANT NOTICE



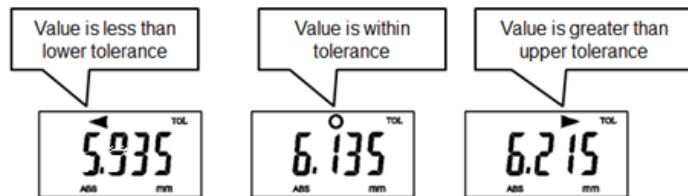
- Clean all measuring surfaces and body prior to use.
- Clean the battery before installation.
- Zero set the tooling after installing the battery.

➤ Switching between Mode Options

- Long press of [**SET Button**] to select tolerance function.
- Short press of [**ZERO Button**] to select Calibration Function.
- Short press of [**ZERO Button**] to select Metric/Inch measurement unit.
- Short press of [**ZERO Button**] to select measurement Direction.

➤ Setting tolerance parameters

- Long press of [**SET Button**] to select tolerance function.
- Short press the [**MODE Button**] causing the right arrow to flash and the right digit will flash.
- Short press the [**ZERO Button**] to choose the next digit to the left. Repeat step 3 to select the correct digit. Continue until the lower tolerance value and sign is correct.
- Short press the [**ZERO Button**] to choose the next digit to the left. Repeat step 3 to select the correct digit. Continue until the lower tolerance value and sign is correct.
- Short press the [**SET Button**] to change to the upper tolerance. The upper tolerance icon will flash along with the last digit.
- Short press the [**ZERO Button**] to choose the next digit to the left. Repeat step 3 to select the correct digit. Continue until the upper tolerance value and sign is correct.
- For this example: **Lower Tolerance** 6.000mm **Upper Tolerance** 6.200mm



➤ Setting a preset value:

- Long press the [**SET Button**] and then Short press the [**ZERO Button**] to select the CAL function.
- Short press the [**MODE Button**] and the last digit in the display will flash.

- Short press the [**MODE Button**] to index the flashing digit to required preset value
- Short press the [**ZERO Button**] to choose the next digit to the left. Repeat step 3 to select the correct digit. Continue until the lower tolerance value and sign is correct
- Short press the [**SET Button**] to quit the preset function. The preset value will be loaded by pressing the [**ZERO Button**] provided that the ABS mode is selected
- Long press the [**ZERO Button**] to remove a previously stored preset while in the CAL mod

➤ Change Display Sign

- Long press the [**SET Button**], and then Short press the [**ZERO Button**] to index the menu to dir.
- Short press the [**MODE button**] to index the flashing display between the plus and minus for inward movement of the spindle
- Short press the [**SET Button**] when the desired unit is flashing. Press the [Set button] to return to measurement mode

➤ MAX/MIN Function

- **MAX mode:** Press the [**MODE Button**] until **MAX** is displayed. The maximum spindle movement value will be displayed. Use the [**MODE Button**] to exit from the MAX mode.
- **MIN mode:** Press the [**MODE Button**] until **MAX** is displayed. Press the [**SET Button**] to index to **MIN** mode. The minimum spindle movement value will be displayed. Use the [**MODE Button**] to exit from the MIN mode.
- Press the [**SET Button**] after collecting the **MAX** and **MIN** datum and the difference between the **MAX** and **MIN** values will be displayed. Use the [**MODE button**] to exit from the max mode.

Low battery warning

The digits within the display will fade or flash as the battery voltage diminishes. Upon total battery discharge the display will fail to be displayed. Please replace the battery if any of the aforementioned conditions are applicable.