OPERATION INSTRUCTION

Digital Indicator

Caution: Prevent liquid from getting into indicator to damage electronics.

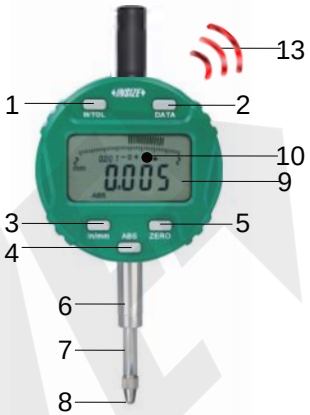
Resolution 0.001mm/0.00005"

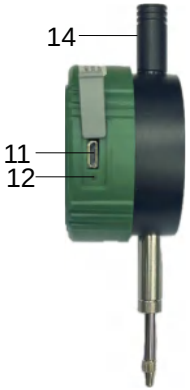
Code	Range	Accuracy	Hysteresis	Maximum measuring force	Cap	Remark
2508-10WL*	12.7mm/0.5"	5μm	2μm	1.5N	can lift	lug back
2508-25WL*	25.4mm/1"	5μm	3μm	2.2N	cannot lift	lug back
2508-50WL*	50.8mm/2"	6μm	3μm	2.5N	cannot lift	lug back
2508-10FWL*	12.7mm/0.5"	5μm	2μm	1.5N	can lift	flat back
2508-25FWL*	25.4mm/1"	5μm	3μm	2.2N	cannot lift	flat back
2508-50FWL*	50.8mm/2"	6μm	3μm	2.5N	cannot lift	flat back
2508-25PWL*	25.4mm/1"	5μm	3μm	2.2N	can lift	flat back
2508-50PWL*	50.8mm/2"	6μm	3μm	2.5N	can lift	flat back

Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Cap	Remark
2509-10WL*	12.7mm/0.5"	20μm	10μm	1.5N	can lift	lug back
2509-25WL*	25.4mm/1"	20μm	10μm	2.2N	cannot lift	lug back
2509-50WL*	50.8mm/2"	30μm	10μm	2.5N	cannot lift	lug back
2509-10FWL*	12.7mm/0.5"	20μm	10μm	1.5N	can lift	flat back
2509-25FWL*	25.4mm/1"	20μm	10μm	2.2N	cannot lift	flat back
2509-50FWL*	50.8mm/2"	30μm	10μm	2.5N	cannot lift	flat back
2509-25PWL*	25.4mm/1"	20μm	10μm	2.2N	can lift	flat back
2509-50PWL*	50.8mm/2"	30μm	10μm	2.5N	can lift	flat back

*Supplied with manufacturer inspection certificate





1-"M/TOL" button
2-"DATA" button
3-"in/mm" button
4-"ABS" button
5-"ZERO" button
6-Stem(diameter Ø8mm)
7-Spindle
8-Contact point(thread M2.5X0.45)
9-LCD display
10-data tranmission&charging signal light
11-charging port
12-Power off reset hole
13-Wireless transmission signal
14-Lift cap

Display
1-Analog pointer
2-Tolerance sign
3-Analog pointer resolution
4-Metric mode
5-Inch mode
6-Preset mode
7-Absolute measuring mode
8-Tolerance measuring mode
9-Data transmission signal light
10-Measuring direction sign
11-Difference between the max. and min. measuring value
12-Minimum value track measurement
13-Maximum value track measurement
14-Set upper/lower limit

MN-2508WL-E
V1

1. Buttons:

Long press: longer than 2 seconds; short press: less than 2 seconds.

M/TOL---Long press until "TOL" appears to enter tolerance measuring mode. Under this mode, "▶" at the upper right corner blinks if the reading is larger than the upper limit; "◀ " at the top left corner blinks if the reading is less than the lower limit. Short press "M/TOL" button to exit tolerance measuring mode.

---Long press until "TOL" and "▼" appears to enter tolerance set mode. And the last digit blinks. Short press "ZERO" button to position the digit, the digit blinks when it is positioned. Short press "in/mm" button to change the digit from 0 to 9. After setting the lower limit, short press "M/TOL" button, "▲" appears and the last digit blinks. Set the upper limit as setting the lower limit way. Short press "M/TOL" button to finish set and enter into tolerance measuring mode.

If the lower limit is larger than the upper limit, "EEE" will appear and the digital indicator enter into tolerance set mode again automatically.

---Short press, "MAX" appears and enter maximum reading tracking mode. Short press again, "MIN" appears and enter minimun reading tracking mode. Short press for the third time, "TIR" appears and to get the difference between the maximum and minimum reading of one measurement.

in/mm---Short press for inch and metric reading conversion

---Long press to change measuring direction. "▲" appears, the value increases if the spindle moves up. "▼" appears, the value decreases if the spindle moves up.

ABS---Short press for absolute and relative measuring mode conversion. The normal mode is absolute measuring mode("ABS" is on display). Short press the button to enter relative measuring mode at any point(this point is called "relative zero point"), "ABS" disappears 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.

---Long press to enter initial reading set mode. "SET" appears and the last digit blinks. Short press "ZERO" button to position the digit, the digit blinks when it is positioned. Short press "in/mm" button to change the digit from 0 to 9. Long press "ABS" button to exit set mode.

ZERO---When display is powered on: short press to get initial reading on absolute measuring mode("ABS" is on display); long press to turn off display.

---When display is powered off: short press to turn on display.

DATA-- When connected to the wireless receiver (optional accessories), press once to send 1 data, that is, send the current display value. The transmission success indicator blinks green, and the transmission failure indicator blinks red.

---Long press to change the analog pointer resolution

The digital indicator has automatic shutdown and high/low frequency switching functions, and the specific operations are as follows:

(1). False shutdown automatic shutdown function:

By default, if you press "ZERO" button or let it in a state with no any operation for about 2 hours, the digital display will automatically shut down, and be in a false shutdown state. In this state, push the measuring rod or press "ZERO" button to turn on digital indicator, it still retains the initial value and preset tolerance.

(2). Real shutdown time setting:

After shutting down, press and hold the "ABS" button, short press the "ZERO" button to turn on, release the buttons to enter the shutdown time mode setting, the default display is "06", which means it will automatically shut down after 6 hours of no operation. Short press "ABS" button can switch the value, long press "ABS" button can switch between individual and ten digits, the valuse can switch from 0 to 99 hours with 1 hour step, . (When the switch display is "00", it means the idigital ndicator will not automatically shut down). Short press the "ZERO" button to confirm and save the setting, exit the current mode.

(3). High and low frequency switching settings:

After shutting down, press and hold the "in/mm" button, and shortly press "ZERO" button to turn on, after displaying "Fr-on", release the buttons to enter the high and low frequency switching mode setting, short press the "in/mm" button to switching mode"Fr-on" and "Fr-oF", short press the "ZERO" button to confirm and save mode setting and exit to the working state.

In the "Fr-on" mode, when the digital indicator has no operation for 3 seconds, the digital indicator will automatically switch to low frequency, it will switch to high frequency automatically when press button or push rod. In this mode, the power consumption is lower, and it is more power-saving, suitable for use in the routine measurement state.

In the "Fr-oF" mode, the digital indicator will continue to maintain high frequency. In this mode, the power consumption is higher, and long-term use of this mode will shorten the battery life. It is suitable for occasions where high-speed movement of the measuring rod is required.

2. The digital display must be mounted on a rigid and reliable frame before use.Clamping methods are as follows: flat back cover of the digital display, through the clamping sleeve installation; with ears back cover, can be installed through the clamping sleeve or back cover earrings.
When clamping the sleeve, the clamping force should not be too large, so as to avoid deformation of the sleeve, affecting the movement of the measuring rod.

3. When measuring, the measuring rod should be perpendicular to the surface to be measured, otherwise it will generate measurement errors.
Note: Do not move the rod quickly or apply force from the lateral direction.

4. When the digital display meter is dropped or shocked, please check the accuracy before use.

5. Restore the factory settings If the display or key abnormalities, gently poke the reset hole to clear all the setting data and restore the factory settings.

6. Power supply
---Built-in rechargeable lithium battery (3.7V.150mA) 1pc.
---Charging cable 1pc.
---Power adapter (input 100-240V.50/60Hz, 150mA Max; output 5V 1A) 1pc.

7. Optional accessories: wireless receiver, back cover, probe.
In order to ensure accurate measurement results, according to the shape of the workpiece to be measured to choose the probe. Measurement of cylindrical workpiece is recommended to use a cutter-shaped probe, measurement of spherical workpiece is recommended to use a flat probe, measurement of concave or complex shape of the surface is recommended to use a needle-shaped probe.

Note:
---Operating temperature is 0-40 degrees Celsius.
---The working temperature is 0-40°C. The relative humidity is not more than 80%.
---After use, the probe head should be oiled to protect, but please do not oil the probe rod,which may lead to inflexible movement of the probe rod.
Lithium battery power supply, pay attention to regular battery charging, long-term no use is recommended every 3 months.