



OPERATION INSTRUCTION

Digital Indicator

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

Code	Range	Accuracy	Hysteresis	Resolution	Remark
2112-101	12.7mm/0.5"	5μm	2μm	0.001mm/0.00005"	lug back
2112-251	25.4mm/1"	5μm	3μm	0.001mm/0.00005"	lug back
2112-501	50.8mm/2"	6μm	3μm	0.001mm/0.00005"	lug back
2112-101F	12.7mm/0.5"	5μm	2μm	0.001mm/0.00005"	flat back
2112-251F	25.4mm/1"	5μm	3μm	0.001mm/0.00005"	flat back
2112-501F	50.8mm/2"	6μm	3μm	0.001mm/0.00005"	flat back
2112-251P	25.4mm/1"	5μm	3μm	0.001mm/0.00005"	flat back, with lift cap
2112-501P	50.8mm/2"	6μm	3μm	0.001mm/0.00005"	flat back, with lift cap
2112-10	12.7mm/0.5"	20μm	10μm	0.01mm/0.0005"	lug back
2112-25	25.4mm/1"	20μm	10μm	0.01mm/0.0005"	lug back
2112-50	50.8mm/2"	30μm	10μm	0.01mm/0.0005"	lug back
2112-10F	12.7mm/0.5"	20μm	10μm	0.01mm/0.0005"	flat back
2112-25F	25.4mm/1"	20μm	10μm	0.01mm/0.0005"	flat back
2112-50F	50.8mm/2"	30μm	10μm	0.01mm/0.0005"	flat back
2112-25P	25.4mm/1"	20μm	10μm	0.01mm/0.0005"	flat back, with lift cap
2112-50P	50.8mm/2"	30μm	10μm	0.01mm/0.0005"	flat back, with lift cap

- 1-Lift cap
- 2-Battery cover
- 3-"in/mm" button
- 4-"ABS" button
- 5-LCD display
- 6- USB data output
- 7-"ZERO"button
- 8-Stem(diameter Ø8mm)
- 9-Spindle
- 10-Contact point(thread M2.5X0.45)

1. Install and remove battery(CR2032), the negative side of battery should face

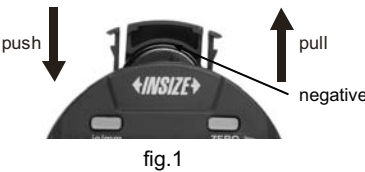


fig.1



2112-10F

2112-25P

2. Buttons:
- 'in/mm' ---short press: inch and mm conversion; long press: change measuring direction.
 - 'ABS' --- short press: absolute and relative measuring mode conversion; long press : set initial reading, short press "in/mm" to change the digit from 0 to 9, short press "ZERO" button to position the digit, long press "ABS" again to exit.
 - 'ZERO' --- short press: set zero; long press: power off (It's fake shutdown).

Fake shutdown function:
Long press the ZERO button to shut down or leave the screen without any operation for about 2 hours. At this time, it is in a fake shutdown state. In this state, it has a data memory function, and the original data is still retained when it is turned on.

High and low frequency switching settings:
After shutting down, press and hold the in/mm key, and shortly press the ZERO key to turn on, after displaying "----", release the in/mm key to enter the high and low frequency switching mode setting, short press the in/mm key to adjust the switching mode, display "Fr-on" means that the automatic frequency switching function is turned on. After 3 seconds without button operation and push rod operation, it will automatically switch to high frequency. Display "Fr-oF", which means that the automatic frequency switching function is turned off, and the sensor keeps the high frequency state unchanged. Short press the ZERO button to confirm and save the high and low frequency switching mode settings, and exit to the working state.

When the automatic frequency hopping is enabled, the meter is powered on again or short press the ZERO button to turn it on, and LL will be displayed for one second, indicating that the automatic frequency hopping is currently enabled.
When the meter is not operated for 3 seconds in this mode, the meter will automatically switch to low frequency, so the power consumption is lower, and it is more power-saving, suitable for use in the routine measurement state.

When the automatic frequency hopping is turned off, the meter is powered on again or short press the ZERO button to turn it on, and HH will be displayed for one second, indicating that the meter is currently maintaining high frequency without frequency hopping.
In this mode, the gauge will continue to maintain high frequency, high power consumption, and reduced battery life. It is suitable for occasions where high-speed movement of the measuring rod is required.

Shutdown time setting (It's real shutdown):
After shutting down, press and hold the ABS button, short press the ZERO button to turn on, after displaying "----", release the ABS button to enter the shutdown time mode setting, the default display is "6.0", which means it will automatically shut down after 6 hours of standing, short press ABS The key can switch the value, and it can switch between 0 and 99 hours every 1 hour. When the switch display is "0.0", it means that the gauge will not automatically shut down.

3. Digital indicator should be mounted on a rigid holder to use.
4. Clamping: clamping the stem for flat back digital indicator. For lug back, the digital indicator can be mounted by clamping the lug or stem. If the digital indicator is mounted by clamping the stem, please do not apply excessive clamping force, which will affect the movement of the spindle.
5. During measurement, the spindle should be vertical to the workpiece surface, otherwise, the measurement may not be correct. Caution: please do not move the spindle quickly or apply lateral force on the spindle.
6. After measurement, please oil the contact point. The spindle should not be oiled, otherwise, the movement of the spindle will not be smooth.
7. If the digital indicator drops or be shocked, please inspect the measuring accuracy before using.
8. Optional accessories: SPC cable (7302-40M, 7315-50M, 7305-40M), backs, contact points.
In order to get accurate measurement, it is necessary to choose contact point according to the shape of the workpiece. Measuring columned workpiece should choose knife edge point, measuring spherical workpiece should choose flat point, the needle point should be choosen when measuring concave or complex shape workpiece.
9. If the battery symbol appears on the display, battery voltage is too low, please replace battery. If the digits do not change when buttons are pressed or spindle is moved, take out battery and put it back after 1 minute. If the indicator is not be used for a long period of time, please remove the battery. Otherwise, liquid may leak from the battery and damage the indicator.

MN-2112-C/E