



# OPERATION INSTRUCTION

## No Power Off Digital Indicator

### Series 2113

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

Code	Range	Resolution	Accuracy	Hysteresis	Remark
2113-101	12.7mm/0.5"	0.001mm/0.00005"	5µm	2µm	lug back
2113-251	25.4mm/1"	0.001mm/0.00005"	5µm	3µm	lug back
2113-10	12.7mm/0.5"	0.01mm/0.0005"	20µm	10µm	lug back
2113-25	25.4mm/1"	0.01mm/0.0005"	20µm	10µm	lug back
2113-101F	12.7mm/0.5"	0.001mm/0.00005"	5µm	2µm	flat back
2113-251F	25.4mm/1"	0.001mm/0.00005"	5µm	3µm	flat back
2113-10F	12.7mm/0.5"	0.01mm/0.0005"	20µm	10µm	flat back
2113-25F	25.4mm/1"	0.01mm/0.0005"	20µm	10µm	flat back

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



1. No power off digital indicator is good at tracking the transformation of mould and steel structure for a long time.
2. Install and remove battery(CR2032), the negative side of battery should face out(fig.1).



fig.1

3. Buttons:
  - 'in/mm' is for inch and mm conversion
  - 'ON/OFF' is to turn on/off
  - 'ZERO' is to set zero
4. Digital indicator should be mounted on a rigid holder to use.
5. Clamping: clamping the stem for flat back dial indicator. For lug back, the dial indicator can be mounted by clamping the lug or stem. If the dial indicator is mounted by clamping the stem, please do not apply excessive clamping force, which will affect the movement of the spindle.
6. 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.
7. After measurement, please apply oil the contact point. The spindle should not be oiled, otherwise, the movement of the spindle will not be smooth.
8. If the digital indicator drops or be shocked, please inspect the measuring accuracy before using.
9. One battery can last for 4000h use with caliper's power on. If there is ' ' on display, battery voltage is too low, please replace battery. 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.
10. Working temperature is 0-40°C/32-104°F, relative humidity should not exceed 80%.
11. Optional accessories: SPC cable(7305-SPC1) with software, the data acquisition interface is following, backs(7330-L5/F5), contact points(series 6282).
 

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 chosen when measuring concave or complex shape workpiece.

Set auto sample interval and tolerance

automatic judgment by setting tolerance

automatic sampling manual sampling

Test result display tolerance, maximum value, minimum value, total quantity of workpiece, quantity of passed and not passed, quantity of exceed upper tolerance and exceed lower tolerance

MN-2113-C/E

V1