



# OPERATION INSTRUCTION

## Metric Digital Indicator

### Series 2116

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

Code	Range	Accuracy	Hysteresis	Resolution	Remark
2116-101	12.7mm	5μm	2μm	0.001mm	lug back
2116-251	25.4mm	5μm	3μm	0.001mm	lug back
2116-501	50.8mm	6μm	3μm	0.001mm	lug back
2116-101F	12.7mm	5μm	2μm	0.001mm	flat back
2116-251F	25.4mm	5μm	3μm	0.001mm	flat back
2116-501F	50.8mm	6μm	3μm	0.001mm	flat back
2116-10	12.7mm	20μm	10μm	0.01mm	lug back
2116-25	25.4mm	20μm	10μm	0.01mm	lug back
2116-50	50.8mm	30μm	10μm	0.01mm	lug back
2116-10F	12.7mm	20μm	10μm	0.01mm	flat back
2116-25F	25.4mm	20μm	10μm	0.01mm	flat back
2116-50F	50.8mm	30μm	10μm	0.01mm	flat back

- 1-Battery cover
- 2-"+/-" 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. Install and remove battery(CR2032), the negative side of battery should face out(fig.1).



fig.1

2. Buttons:  
 'ZERO' --- set zero  
 '+/-' --- direction conversion  
 'ON/OFF' --- turn on/off
3. Automatic power off in about 6 hours. Press "ON/OFF" button to turn on indicator.
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. Optional accessories: data output cable(7302-SPC3A, 7305-SPC1A, series 7306 and 7308), contact points(series 6282), backs(7330-L5/F5).  
 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.
10. One battery can last for one year use. If there is nothing on display or digits blurring, 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.
11. Working temperature is 0-40°C/32-104°F, relative humidity should not exceed 80%.

MN-2116-C/E

V1