



OPERATION INSTRUCTION

Digital Indicator

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

| Code | Range | Accuracy | Hysteresis | Resolution | Remark |
|----------|-------------|----------|------------|------------------|--------------------------|
| 2138-10 | 12.7mm/0.5" | 5μm | 2μm | 0.001mm/0.00005" | lug back |
| 2138-25 | 25.4mm/1" | 5μm | 3μm | 0.001mm/0.00005" | |
| 2138-50 | 50.8mm/2" | 6μm | 3μm | 0.001mm/0.00005" | |
| 2138-10F | 12.7mm/0.5" | 5μm | 2μm | 0.001mm/0.00005" | flat back |
| 2138-25F | 25.4mm/1" | 5μm | 3μm | 0.001mm/0.00005" | |
| 2138-50F | 50.8mm/2" | 6μm | 3μm | 0.001mm/0.00005" | |
| 2138-25P | 25.4mm/1" | 5μm | 3μm | 0.001mm/0.00005" | flat back, with lift cap |
| 2138-50P | 50.8mm/2" | 6μm | 3μm | 0.001mm/0.00005" | |
| 2139-10 | 12.7mm/0.5" | 20μm | 10μm | 0.01mm/0.0005" | lug back |
| 2139-25 | 25.4mm/1" | 20μm | 10μm | 0.01mm/0.0005" | |
| 2139-50 | 50.8mm/2" | 30μm | 10μm | 0.01mm/0.0005" | |
| 2139-10F | 12.7mm/0.5" | 20μm | 10μm | 0.01mm/0.0005" | flat back |
| 2139-25F | 25.4mm/1" | 20μm | 10μm | 0.01mm/0.0005" | |
| 2139-50F | 50.8mm/2" | 30μm | 10μm | 0.01mm/0.0005" | |
| 2139-25P | 25.4mm/1" | 20μm | 10μm | 0.01mm/0.0005" | flat back, with lift cap |
| 2139-50P | 50.8mm/2" | 30μm | 10μm | 0.01mm/0.0005" | |



2139-25P



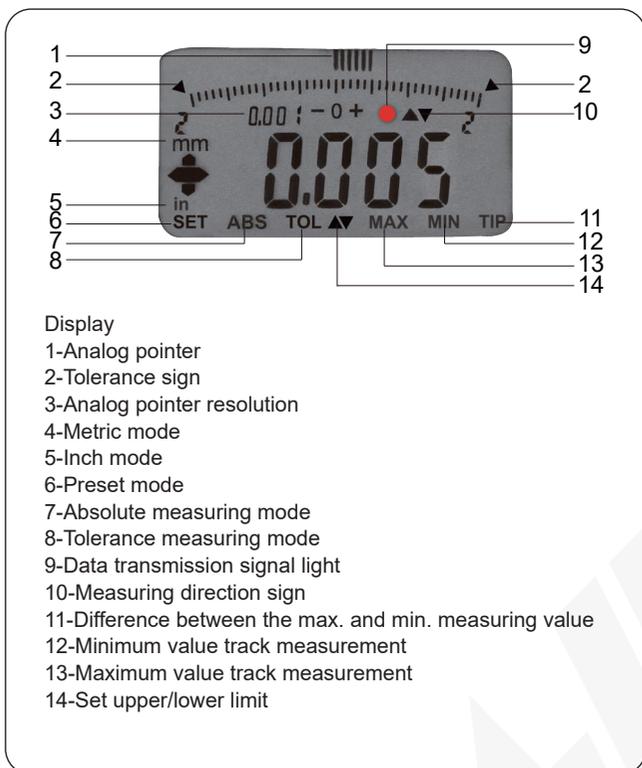
2138-10F

- 1-Lift cap
- 2-Battery cover
- 3-"M/TOL" button
- 4-LCD display
- 5-"in/mm" button
- 6-"ABS" button
- 7-Stem(diameter Ø8mm)

- 8-Spindle
- 9-Contact point(thread M2.5X0.45)
- 10-"DATA" button
- 11-USB data output
- 12-"ZERO" button
- 13-Data transmission signal light

MN-2138-E

V3



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

2. Display can be rotated by 320°.



3. 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 minimum 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.

ZERO ---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.

---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 ---Short press for data port output current display value, When the transmission is successful, the LED light will be on once, but if the transmission is failed, the LED light will not be on.
---Long press for switch analog resolution.

False shutdown function:

Long press the ZERO button to turn off the digital indicator or leave it without operation for about 2h to turn off the screen, this is a false shutdown state, in this state, after restarting, it still retains the initial value and preset tolerance.

High and low frequency switching setting:

After power off, press and hold in/mm button, press ZERO button to turn on the digital indicator, release the button to enter the high and low frequency switching setting mode, press in/mm button to adjust the switching mode.

When "Fr-on" is shown, it means the function of automatic frequency switching will be opened, and it will automatically switch to low frequency after 3 seconds of no button operation and Spindle operation, and it will automatically switch to high frequency if there is a button operation or Spindle operation. In this state, it is more power-saving and suitable for routine measurement.

When "Fr-oF" is shown, it means the the automatic frequency switching function is turned off and the sensor keeps the high frequency status unchanged. Short press ZERO button to confirm and save the setting of high and low frequency switching mode, and exit to the working state. In this state, the power consumption is higher, the battery life is reduced, applicable to the need for high-speed movement of the measuring rod.

Shutdown time setting:

After power off, press and hold ABS button, press ZERO button to turn on the power, release the button to enter the power off time setting, press ABS button to switch the value, long press ABS button to switch the single digit and ten digit, every 1 hour a step, the longest automatic power off time is 99 hours, displays '-99-'. Note: Display '-00-' means no auto power off, display '-06-' means auto power off time is 6 hours, and so on. Short press ZERO key to confirm and save the setting time, exit the current mode.