

twilight

INSTRUMENTOS DE MEDICIÓN INDUSTRIAL

**Indicador de carátula
electrónico 0 a 1
FW-545203100**

www.twilight.mx



Please read through this owners manual carefully before using your new tool. Use your tool properly and only for its intended use.

Fowler Indi-Max Electronic Indicator

IMPORTANT

- 1). Do not disassemble or modify this instrument.
- 2). To clean any contamination, use a soft cloth dampened with a neutral cleaner such as alcohol. Do not use an organic solvent, such as thinner or benzene, as it may damage the indicator. Once clean, a small amount of low-viscosity oil applied to a soft cloth may be used to wipe the spindle.
- 3). Do not clamp the stem directly by tightening a set screw, etc. If the screw is tightened with a torque of 300 N/cm or more, the spindle may not move freely.
- 4). When replacing the contact point, hold the spindle and turn the contact point. Otherwise, the indicator may be damaged.

I. Operating Procedure

Setting the Measuring Direction

- The +/- button changes the measuring direction of display values with respect to the spindle direction.

Setting up the Origin

- Displace the spindle to the position at which the origin is desired. Then press and hold the ORIGIN button for at least three seconds. The origin will be set and the LCD screen will display "0.000mm" or "0.00000 in".

Setting the Measuring System

- Pressing the in/mm button will allow the measuring system to convert between inch and metric.

Preset

1. Hold the PRESET button for three seconds. The "P" on the display will flash, indicating the PRESET mode.
2. Hold the PRESET button. The digit will flash and move from one position to the next. Once the desired digit is flashing, release the PRESET button. Pressing the PRESET button will change the digits from 0 to 9. Once the desired digit is reached, hold the PRESET button to select the next digit to preset.
3. When you have finished setting all the digits, hold the PRESET button. The "P" will flash. Then press the PRESET button and the display will show the preset data and the "P". Now the indicator will be ready to use.
4. You can switch between the preset measuring mode and the absolute measuring mode by pressing the ZERO/ABS key.

Tolerance Function

1. To set the first Tolerance, Hold the TOL button for three seconds. The "TOL" on the LCD display will flash.
2. Hold the TOL button. The digit will flash and move from one position to the next. Once the desired digit is flashing, release the TOL button. Pressing the TOL button will change the digits from 0 to 9. Once the desired digit is reached, hold the TOL button to select the next digit to preset.
3. When you have finished setting all the digits, hold the TOL button. The "TOL" will flash. Then press the TOL button and set the second tolerance as above.
4. Once you have finished setting the second tolerance, hold the TOL button. The "TOL" will flash. Then press the TOL button and the indicator will be ready to use. The system will have stored the upper and lower tolerances.
5. Press the TOL button to enter tolerance measuring mode. When the measuring value is between the upper and lower tolerance values, the screen will display "0". When it is greater than the upper tolerance, the screen will display ">". When it is less than the lower tolerance, the screen will display "<".
6. Press the TOL button to exit tolerance measuring mode.

Error Messages and Remedies

- If the battery is LOW and needs to be replaced, a " B " message will appear on the screen.
- When using the indicator, occasionally the screen may read "ERR" momentarily before returning to normal. This is caused by a temporary error due to a quick displacement of the spindle. Continue using the indicator normally in this case; the measurement will not be affected.

Battery Replacement

1. Remove the battery by pulling up the battery holder.
 2. Replace the battery (with the + side facing up) and re-install the battery holder.
- *NOTE: When the battery is replaced, the system will recall the origin. It is not necessary to reset.*

Mounting the Lifting Lever (optional)

1. Unscrew the screw on top of the spindle.
2. Loosen the lever mount screw and mount the lever by hanging it on the stop screw.

Mounting the Release (optional)

1. Unscrew the screw from the release hole. Then screw on the end of the release.

Mounting the Indicator

1. When mounting this indicator on a fixture or stand, use the stem or lug to hold it.
2. When clamping on the stem, use a slotted holder with a 3/8" diameter bore and a tolerance of +.0002" to +.001".



1. Cap
2. Lug Back (1/2" model)
3. Flat Back (1" and 2" models)
4. Output Connector
5. Stem
6. Spindle
7. Contact Point
8. Battery Tray
9. Display and Function Buttons

Specifications	
Measuring Range:	0- 0.5"/0-1"/0-2"
Resolution:	0.00005"/0.001mm
Accuracy:	0-0.5" (0.0002"/0.004mm) 0-1" (0.00025"/0.005mm) 0-2" (0.0003"/0.006mm)
Measuring Force:	2.0N or less
Protection Class:	IP54
Measuring Direction:	Both directions are available
Power Supply:	3V lithium battery CR2032
Battery Life:	Approximately 1 year
Operating Temperature Range:	0 to 40°C
Storage Temperature Range:	10 to 60°C



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