

# twilight

INSTRUMENTOS DE MEDICIÓN INDUSTRIAL

## Vernier Digital 12

FW-V12

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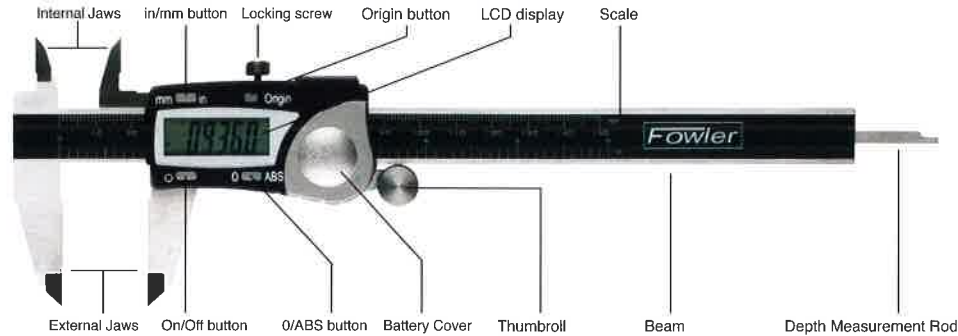
# Electronic Digital Caliper

Thank you for your purchase of a Fowler Electronic Digital Caliper.

Please carefully review this instruction manual to insure proper and accurate use of your new instrument.

## IMPORTANT!

1. Before using this caliper for the first time, wipe the rust preventive oil from the caliper with a soft cloth.
2. Never apply voltage (e.g. engraving with an electric engraver) on any part of the caliper for fear of damaging the circuit.
3. After use, take corrosion prevention measures such as a very light oil.



Operating Instructions and Parts Manual Model No: 54-100-000-2 54-100-112-2  
54-100-004-2 54-100-777-2  
54-100-008-2 54-100-712-2

The Absolute Digital Caliper uses high accuracy ABSOLUTE memory technology. It keeps track of its origin position once set. Whenever the digital caliper is turned on, the large easy-to-view LCD displays the actual sensor position and is ready to start measuring. It's not necessary to reset zero. The measuring speed is unlimited. It features standard USB data output and a high quality surface finish for extra smooth slider movement.

## Functions and Features

1. Zero-setting at any position.
2. in/mm conversion at any position.
3. Memory of conversion origin point (Absolute zero).
4. No matter when the unit is switched on, the LCD will display the current slider position for measurement at any time.
5. Absolute origin point, no repeating of zero adjustment.
6. Low power consumption and long battery life ( $\geq 2$  years).
7. No speed limitations and will not cause "over-speed" error.
8. High accuracy

**SEE REVERSE FOR FURTHER INSTRUCTIONS**

**INS001**

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# Electronic Digital Caliper

## OPERATIONS


### 1. Preparation

- (1) Dry the surface of the scale and clean all measuring surfaces.
- (2) Loosen the clamp screw and move the slider to check if the LCD display and all keys work properly.

### 2. Measuring

- (1) Press ON/OFF key to switch power on or off.
- (2) Press in/mm key to select desired measuring unit.
- (3) Move the slider to make the two outside measuring faces touch gently and then observe the display.
  - a.) The display should read .0000"/.00mm and is ready to take normal measurements. This caliper has been ORIGIN SET before shipping.
  - b.) If the display reads otherwise hold ORIGIN switch in for 5 seconds and the display will reset to 0.00mm. ORIGIN set is finished and ready to take normal measurements.
- (4) Switching of absolute measurement and incremental measurement. The caliper is in absolute mode under normal use; press ZERO/ABS key, INC indicator will appear at the left corner of LCD display and zeroing will be done at the same time, the caliper will be in incremental measurement; Hold ZERO/ABS key for 5 seconds in incremental mode to return to ABS mode.

### 3. Battery Installation and Origin Setting

- When "  " (low voltage) blinks or there is no display, it indicates a flat battery.
- Remove the old battery by pushing downward on the battery cover and install a new battery. Make sure the positive pole of the battery faces up
- Move the slider and close the jaws and hold down the ORIGIN switch for about 5 seconds, the "0.0000" display appears, indicating origin (absolute zero) setting is complete.

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## SPECIFICATIONS

<b>Measuring Range:</b>	Model 54-100-000-2 is 0-6" /150mm Model 54-100-004-2 is 0-4"/100mm Model 54-100-008-2 is 0-8"/200mm Model 54-100-112-2 is 0-12"/300mm Model 54-100-777-2 is <b>IP54</b> 0-6"/150mm Model 54-100-712-2 is <b>IP54</b> 0-12"/300mm
<b>Resolution:</b>	.0005" / .01mm
<b>Accuracy:</b>	±.001"/0.02mm (range ≤ 6"/150mm) ±.0015"/0.03mm (range ≥ 8"/200mm)
<b>Measuring Speed:</b>	Unlimited
<b>Power:</b>	3V, CR2032 Lithium Battery (included, environmentally safe) 2 years under normal operation
<b>Battery Life:</b>	
<b>Operating Environment:</b>	Temperature 0~+40°C Relative humidity < 80%
<b>Storage Temperature:</b>	-10~60°C



### TO AVOID INJURY

- DO NOT disassemble, short-circuit, charge, or heat the battery.
- The outside and inside measuring jaws of this caliper have sharp edges, handle it with great care.