

Measumax

ELECTRONIC DIGITAL CALIPER

INSTRUCTIONS

- 1) Before using the digital caliper for the first time, wipe the surface of the protective sticker with dry and clean cloth to get rid of the condensed water or with cloth soaked with clearipr.g lil.
- 2) Operating Conditions: Temperature: 5-40°C
Relative Humidity: Lower than 80%
Do not allow any liquid that contains water or moisture from touching the protective layer with graduations
- 3) Never apply voltage (e.g. engraving with an electric pen) on any part of the digital caliper. This could cause damage to the electronics
- 4) Preset a starting point of measurement correctly (please refer to the application). Unless presetting, do not press "set" button purposelessly for fear of measurement error.

DATA OUTPUT:

The data can be transferred to a computer with a special cable.
Binary code, 24 bits. Each datum will be sent twice
The cycle is 300ms (20ms in fast reading state). Transmitting time: 0. 5ms.
Pulse Range of Data: Datum Level <0.2v, Level "1" >1.3v
Clock Pulse CP: 90KHZ, effective for high electrical level

TECHNICAL SPECIFICATIONS:

- 1) Resolution: 0.01mm
- 2) Repeatability: 0. 01mm
- 3) Accuracy: $\pm(0.02+0.00005 \times L)$.
L represents the length from the origin to the given position (mm).
The accuracy obtains accurately to 2 decimal places.
- 4) Maximum Measuring Speed: 1m/s;
- 5) Power: One heavy duty silver oxide button battery SR44, 1.55v. 6.

APPLICATIONS:

- 1) Clean the surface of the protective sticker (please refer to the Instructions above) and all measuring faces.
- 2) Loosen the locking screw and move the slider. Check to see if the display screen and all the buttons work properly.
- 3) Preset the starting point of the measurement:

Maintenance Instructions

1. Keep the caliper clean and dry (Liquid can damage the sliding head).
2. Faces should be cleaned gently with cotton fabrics. Never use petrol, ace tone and other organic solutions.
3. In order to save power turn off the unit when caliper is going to stay idle for some time.
4. Never apply any electronic pressure on any part of the caliper and never use an electronic engraving pen for the fear of damaging the circuitry.

Battery and Replacement

The battery supplied is for the purpose of checking the functions and operation of the caliper and may not satisfy the specified battery life.
Flashing of digits shows a flat battery. Take off the battery cover by sliding off the the cover and replace battery (positive side facing up).

BUTTON FUNCTIONS:

on/off: power

on/off switch

in/mm:

Inch/mm interchange

ABS/zero: Absolute measured value- Relative zero ' point' interchange.

Absolute Measurement: without "INC" characters display.

The absolute measurement is the overall measurement taken from the point that the zero was set.

Increment INC is a way of selecting a temporary zero for the purpose of taking a short measurement without losing the original zero point e.g. measuring the diameter of an axle, the preset value must be zero. For internal measuring, e.g. measuring the bore diameter, the preset value must be 20mm.

The absolute measured value is equal to the preset value plus the slider displacement from the starting point of measurement relatively (Positive number to the right, Negative number to the left).

Relative Measurement: With "INC" characters display. Set a relative zero point by pressing "ABS/zero" button. The measured value is equal to the slider displacement from the relative zero point relatively (Positive number to the right, Negative number to the left).

set: Button for presetting.

With one press on this button, the preset value will be displayed (The value has been preset to be zero in the factory), Press this button and "IF" or "A" simultaneously, "SET" will flash on the upper side of the screen, showing it's ready for the presetting value. Keep pressing on "y" or "s" button alone, the numerical value will decrease or increase continuously to the wanted value. Then release the button. Press "set" button alone again and "SET" will disappear, which means that the presetting is finished.

Failure	Cause	Solution
Five digits flashing simultaneously every second	Battery voltage lower than 1.45 volts	Replace the battery.
Display doesn't change when the sliding head is moved.	Circuit not resetting.	Take out the battery and replace after 30 seconds.
Less accurate than specified	Dirt in the sensor	Remove the sliding head cover and clean
No display on the LCD	1. Battery has poor contact 2. Battery voltage lower than 1.4 volts	1. Remove battery cover and clean the contact points 2. Replace the battery.



WARNING!



- Button & coin batteries (new or used) are hazardous and are to be kept away from children
- If a lithium button/coin battery is swallowed or placed inside the body can cause fatal injuries in 2 hours or less
- If a non-lithium button /coin battery is swallowed or placed inside the body can cause serious injuries
- Medical attention should be sought immediately if suspected the battery has been swallowed or placed inside the body
- Phone 13 11 26 Australian Poisons Information Centre for 24/7 fast, expert advice

