

Large Electronic Calipers



Hardened stainless steel frame and measuring jaws
 Fine adjustment with knurled locking screws
 Clear LCD Display
 Large 13mm digits
 Inch/Metric conversion
 Absolute / Relative measuring modes
 Pre-set Facility
 Resolution: 0.01mm / 0.0005"
 Repeatability: 0.01mm / 0.0005"
 Measuring Speed Maximum: 1 metre per second
 Individual serial numbers
 Power: 1 x Lithium Battery CR 2032 3V
 Operating temperature: 5 - 40°C
 Relative humidity: Maximum 80%
 Warranty: 1 year

Packed Weight and Dimensions

Code	Range	Weight g	W mm	H mm	L mm
49-900-600	600mm / 24"	2134	195	35	821
49-900-999	1000mm / 40"	4935	238	42	1300



Button Functions:

1	ON/OFF	Power on/off
2	ZERO	Zero sets display
3	ABS	Selects relative or absolute mode
4	In/mm	Selects inch or metric mode
5	Pre+	Moves digits in plus direction
6	Pre-	Moves digits in minus direction

Code	Range	Resolution	Repeatability	Accuracy
49-900-600	600mm / 24"	0.01mm / 0.0005"	0.01mm / 0.0005"	$\pm 0.02\text{mm} + (0.00005 \times L)$ where L = length from origin to given position
49-900-999	1000mm / 40"	0.01mm / 0.0005"	0.01mm / 0.0005"	

Code	Range	External Jaw Length	Internal Jaw Dimensions
49-900-600	600mm / 24"	100mm	20mm dia. x 18mm long
49-900-999	1000mm / 40"	125mm	20mm dia. x 24mm long

Large Electronic Calipers

Page 2 of 3

OPERATING INSTRUCTIONS

When using the Caliper for the first time or after a period of non-use, wipe the beam scale with a dry clean cloth to remove any condensation or oil deposits.

Prior to setting the caliper for measuring, first clean the measuring faces with a soft clean cloth or paper.

SETTING INSTRUCTIONS

Absolute Measurement External

Switch caliper on and slide measuring jaws together.

The caliper will be in Absolute mode when it is first switched on (INC not displayed)

Select required measuring system either Metric or Inch

With the measuring jaws together press ZERO to zero display in this position

The caliper is now ready to indicate absolute measurement over its full range

Absolute Measurement Internal

Switch caliper on and slide measuring jaws together.

The caliper will be in Absolute mode when it is first switched on (INC not displayed)

Select Metric measuring system

The caliper jaws are ground to start internal measurements at 20.00mm so initial setup is carried out in metric mode and if required can be converted to inch following setup

Press and hold ZERO button so SET flashes on screen

Press Pre+ whilst holding ZERO button, the digits will now advance in a plus direction towards 20.00mm

The digits will start slowly and then gather speed. Release the Pre+ button to stop the digits before reaching 20.00mm. Press Pre+ again and the digits will start slowly making it easier to stop at the desired size.

If the size is over-run, use the above method and the Pre- button to achieve the correct size setting.

When the size is achieved release all buttons and SET will continue to flash on the display

Press ZERO button to set preset size into the caliper's memory

The caliper is now ready to measure internal dimensions above 20.00mm

Relative Measurement

When set in Absolute mode move measuring jaw to display the desired dimension.

Press ABS button to zero the caliper in this position

INC will be displayed on the screen

Movement of the measuring jaw will indicate a + or – reading relative to the zero set position

Pressing the ABS/zero button will return the caliper to its original Absolute zero position ready for taking absolute measurements

Pre-Set Facility

Use same system to preset any size as used for setting internal measurement datum size

Large Electronic Calipers

Page 3 of 3

OPERATING CARE

Clean measuring faces with dry soft cloth

Keep away from strong magnetic fields

Prevent ingress of oil / liquids into electronics

Remove battery if instrument is not used for a long period of time

Do not disassemble or drop the instrument

Do not mark instrument by engraving, etching or any other permanent marking method, as this will invalidate the warranty

FAULT FINDING

Fault	Cause	Action
Display flashes	Battery voltage below 1.45volts	Replace battery
Display frozen	Circuit overload	Remove battery and replace after 4 minutes
Accuracy below specification but within +/- 0.1mm	Dirt in sensor	Remove slider cover assembly, clean face of sensor with dry clean compressed air (5kg/cm ²)
No display	Poor battery contact	Remove battery and carefully adjust battery contacts, replace battery.
	Dead battery	Replace battery.