

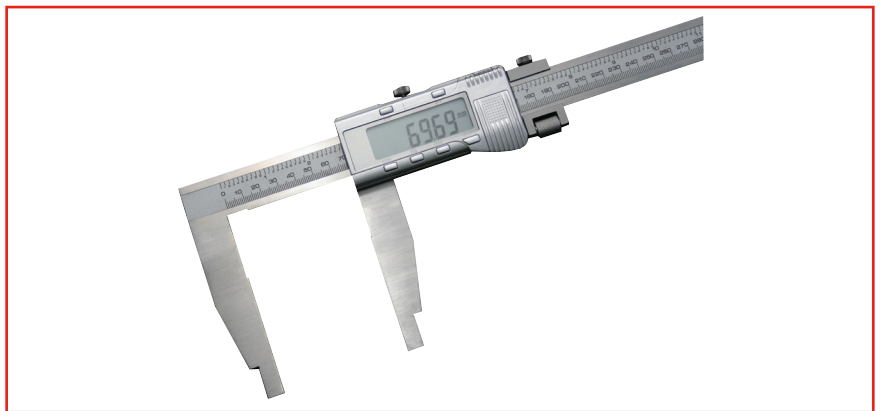


ENGLISH

Datasheet

RS Pro Large Electronic Digital Caliper 1000mm / 40"

RS Stock No: 123-0916



Specifications:

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

Order Code	Manufacturers Code	Description
123-0916	49-900-999N	Electronic Digital Caliper 1000mm/40"

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RS Pro Large Electronic Digital Caliper

1000mm / 40"



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

Range	Resolution	Repeatability	External Jaw Length	Internal Jaw Length
600mm/24"	0.01mm / 0.0005"	0.01mm / 0.0005"	100mm	20 x 18mm

Accuracy:

$$\pm 0.02\text{mm} + (0.00005 \times L)$$

where L = length from origin to given position

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.



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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



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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

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/cm2)
No display	Poor battery contact	Remove battery and carefully adjust battery contacts, replace battery.
	Dead battery	Replace battery.