Data Sheet: LDS 1214

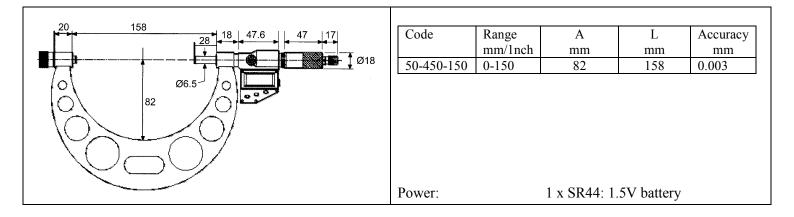
Date: 18-11-2010

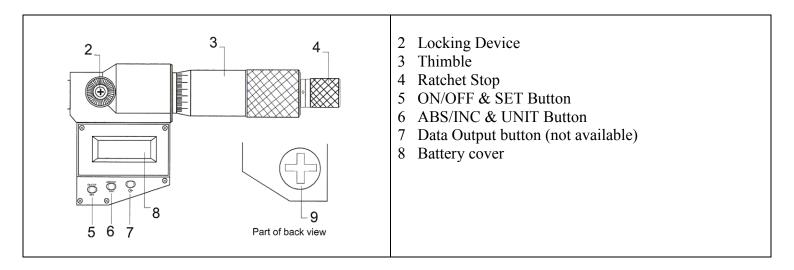
Electronic Micrometer 50-450-150

	Protection: IP 54 Splash Proof DIN 863/1 Clear LCD Display Metric/Inch Conversion Relative & Absolute Modes Resolution 0.001mm/0.0005" Tungsten Carbide Anvils Ratchet Stop Spindle Lock Setting Rods Supplied in fitted case
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Packed Weight and Dimensions

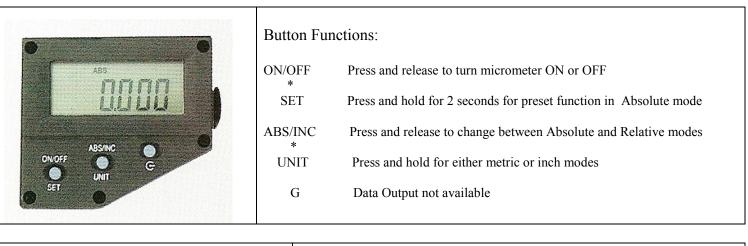
Code	Description	Weight g	W mm	H mm	L mm
50-450-150	Electronic Micrometer 0-150mm / 0 -6"	1960	265	45	425





Electronic Micrometer 50-450-150

Date: 18-11-2010





In : Inch Mode INC : Relative Measuring ABS : Absolute Measuring : Battery Voltage is Low O : Data Output Set : Set the Origin Hold : Display value Held

Setting Instructions:

Fit the required Extension Rod, place the correct Setting Rod between the micrometer anvils and close the spindle onto the setting rod using the ratchet stop to make the final adjustment. Proceed as below

- 1; Press and release ON/OFF button to switch on display
- 2: Press and hold UNIT button to select either Metric or Inch resolution
- 3: Press and release ABS/INC button to obtain ABS in display
- 4: Press and hold SET button until Set appears and flashes on the display
- 5: Press and hold SET button until Set sign disappears and the first digit start flashing
- 6: Press and release SET button to change first digit by 1, repeat until required number is displayed
- 7: Press and hold SET button to advance to the next digit
- 8: Repeat actions 6 & 7 until all the digits on the display have been programmed
- 9: Once the last digit has been programmed, press and hold the SET button until Set flashes in the display
- 10: Press and release SET button to cancel the flashing Set on the display
- 11: The micrometer is now set and ready for use

Data Sheet: LDS 1214

Electronic Micrometer 50-450-150

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Measuring Force:	5 – 10N
Power Consumption:	Greater than 35 milliamps
Operating Temperature:	0 – 40 deg.C
Storage Temperature:	-20 to 60 deg. C
Protection Class:	IP54 (resistant to water splash)

Operating Care

Clean measuring faces with a clean soft cloth only

Do not use any organic solvent for cleaning such as acetone etc.

Keep instrument away from strong magnetic fields and high voltage environments which can affect the correct working of the electronic pack

Prevent the ingress of oil and liquids into the electronics

Do not use or store the micrometer in direct sunlight, or in an excessively hot or cold environment

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

Do not disassemble or drop the instrument

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

Fault Finding

Failure	Causes	Remedy	
Display: "E 1"	Measured value is over display	Reset the origin or change to	
Display: "Exxxxx"	range	relative mode	
Display: "E 2"	The origin is too great	Reset the origin	
Display: "E 3"	1 The micrometer is disturbed	1 Reset the battery	
Display: "E 8"	2 Something wrong with sensor	2 return the micrometer for repair	
Measured value is not correct	1 Measuring surfaces are not clean	1 Clean measuring surfaces	
	2 The origin is incorrect	2 Reset the origin	
Display is confused or dead	Strong disturbance to micrometer	Reset battery	
No display	Battery voltage below 1.45V	Replace battery	
Display is blurring			
Battery sign appears			

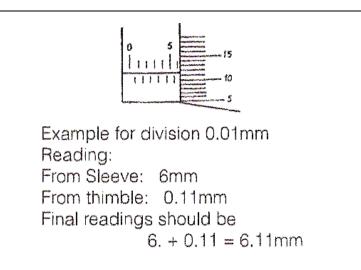
Electronic Micrometer 50-450-150

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Mechanical Thimble and Sleeve

Reading Example: Metric

When reading the micrometer ensure that your line of sight is directly above the graduated scale on the sleeve and the thimble scale to avoid parallax reading errors



Cleaning and Basic Checking Procedure

Remove any oil, grease, dust or small particles which may cause damage to the micrometer or affect its accuracy when taking measurements. Use a soft lint free cloth or paper together with a proprietary instrument cleaning agent. Do not use acetone as this can damage parts of the micrometer

Before use check that the ratchet mechanism functions correctly Check the spindle movement by using the ratchet stop to traverse the spindle though it's complete travel Check that the measuring faces are in good condition Check the locking mechanism works correctly

Zero Point Checking and Adjustment

Use the ratchet stop to move the spindle until it touches the fixed anvil. Allow the ratchet to turn 1 $\frac{1}{2}$ to 2 revolutions for the final positioning

The zero point on the thimble should now coincide with the reference graduated base line on the sleeve For micrometers above 25 mm / 1" use the supplied setting standard or a gauge block to check the zero position

If the zero point does not line up as required, it can be corrected by using the following procedure When the zero point deviation on the thimble is under 2 divisions from the graduated base line Turn the sleeve using the "C" spanner provided until correct alignment is achieved When the zero point deviation on the thimble is over 2 divisions from the graduated base line Hold the frame and the thimble and loosen the ratchet stop using the spanner provided Disconnect the coupling of the thimble to the spindle by giving a light shock to the side of the thimble Turn the thimble until the zero point is in alignment with the base line on the sleeve Press the thimble against the spindle and re tighten with the spanner to achieve a positive coupling Re check the zero position, any final small adjustment can now be made using the "C" spanner to re position the sleeve to the thimble zero

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