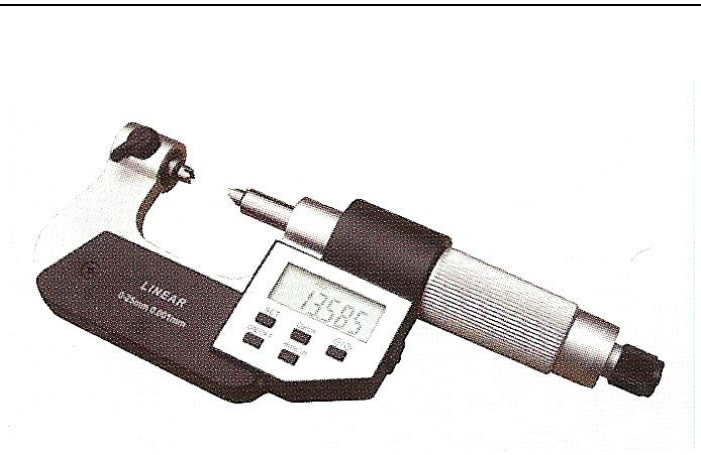
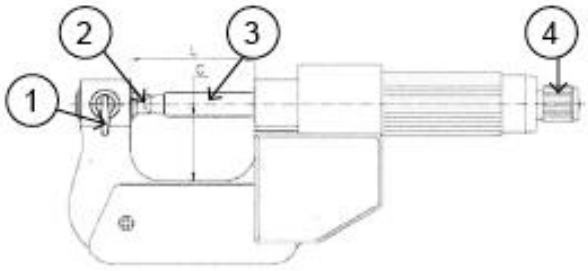
Electronic Thread Micrometers 50-870-Series



Protection: IP 54
DIN 863/1
Clear LCD Display
Metric/Inch Conversion
Tolerance, Relative & Absolute Modes
Resolution 0.001mm/0.0005”
Satin Chrome Frame and Thimble
Friction Thimble with Ratchet End Knob
Plastic Heat Guard
Supplied with 60 deg. Metric Thread Element set
Setting Master supplied with models over 25mm/1”
Supplied in fitted case

Packed Weight and Dimensions

Code	Description	Weight g	W mm	H mm	L mm
50-870-001	Electronic Thread Micrometer 0-25mm / 0 -1”	620	115	45	223
50-870-002	Electronic Thread Micrometer 25-50mm / 1-2”	770	140	45	253
50-860-200	Thread Element Set Nos. 1 - 6	54	35	22	55



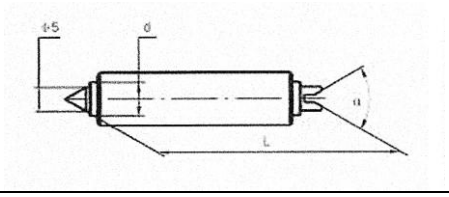
Code	Range mm/1nch	C mm	L mm	Accuracy mm
50-870-001	0-25 – 0-1	26	42	+/- 0.004
50-870-002	25-50 – 1-2	38	67	+/- 0.004

Operating temperature; 5 to 40 deg. C
Relative humidity: Maximum 80%
Power: 1 x SR44: 1.5V battery

Thread Elements:

Element No.	Pitch Range	TPI Range
1	0.4 – 0.5	64 - 48
2	0.6 – 0.9	44 - 28
3	1.0 – 1.75	24 – 14
4	2.0 – 3.0	13 – 9
5	3.5 – 5.0	8 - 5
6	5.5 - 7	4.5 – 3.5

Elements in Set	Supplied with	Range
1 - 5	50-870-001	0 – 25mm
2 - 6	50-870-002	25 – 50mm



Setting Master

Supplied with	L	Angle	d	Accuracy
50-870-002	25mm	60 deg.	7mm	0.003mm

Initial Setup (for micrometers 0-25mm / 0-1”)

Select and clean the required pair of thread elements
Lock the fixed anvil in the mid position of its travel
Insert the thread elements into the micrometer fixed anvil and spindle
Check elements are free to rotate to ensure they align with the thread helix when taking measurements
Advance the to bring the thread elements together
Use the friction thimble to finally nest the single point element inside the V angle element
Follow setting instructions below

Panel Style 1	Panel Style 1 is used for micrometers of 0-25mm range only Buttons: 1 Datum Selects Absolute and Relative Modes 2 Preset Sets zero position for measurements 3 Tol Sets upper and lower tolerance sizes 4 mm/in Selects mm and inch modes + power on 5 off Power off

Operating Instructions (Panel Style 1)

Set Absolute Datum Zero:

Select metric measuring mode
Press Datum button so that “inc” is not displayed
Press Preset button to zero digits
Micrometer is now ready for direct measurement use

Initial Setup (for micrometers above 25mm / 1”)

Select and clean the required pair of thread elements
Lock the fixed anvil in the mid position of its travel
Insert the thread elements into the micrometer fixed anvil and spindle
Check elements are free to rotate to ensure they align with the thread helix when taking measurements
Advance the micrometer spindle to bring the thread elements towards the setting master
Use the friction thimble to finally nest the micrometer elements onto the setting master
Follow setting instructions below

Panel Style 2	Panel Style 2 is used for micrometers with a range over 25mm Buttons: 1 Datum Selects Absolute and Relative Modes 2 Preset Sets zero position for measurements 3 Pr+ Moves digits in plus direction 4 Pr- Moves digits in minus direction 5 mm/in Selects mm and inch modes + power on

Operating Instructions (Panel Style 2)

Set Datum Size for Absolute Measurement:

Select metric measuring mode
Press Datum button so that “inc” is not displayed
Press Preset button together with either P+ or P- to move digits to read size of setting rod
When desired size is indicated press Preset button to set size into memory

When using the Preset + or – buttons the digits will start slowly and increase in speed
For fine setting to size, release + or – button when close to size required.
Re press button to allow slow advance to required size

Operating Care

Clean measuring faces with a clean soft cloth only
Keep instrument away from strong magnetic fields which can affect the correct working of the electronic pack
Prevent the ingress of oil and liquids into the electronics
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

Fault	Correction
Display value frozen	Check if in H or P mode
Display confusion	Remove battery for 4 minutes then replace to reset electronic circuit
Incorrect measurements	Clean measuring surfaces, reset zero/datum setting
No display	Check battery voltage and instrument battery contacts
Off button will not switch off display	Clear from Tol or Preset mode
Display flashes	Replace battery