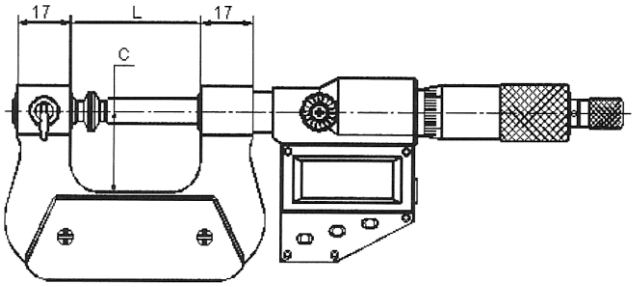
Electronic Universal Multi-Anvil Micrometers 50-860-Series

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 7 pairs of special anvils
Setting Rod supplied with models over 25mm/1”
Supplied in fitted case

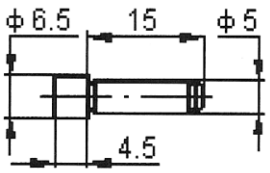
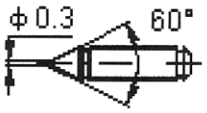
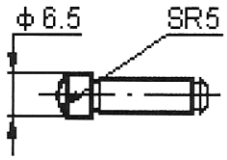
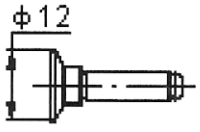
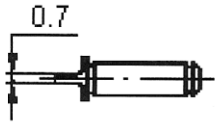
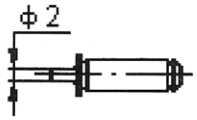
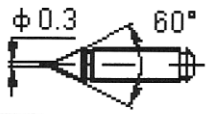
Packed Weight and Dimensions

Code	Description	Weight g	W mm	H mm	L mm
50-860-001	Electronic Universal Micrometer 0-25mm / 0 -1”	625	115	45	223
50-860-002	Electronic Universal Micrometer 25-50mm / 1-2”	785	140	45	253
50-860-003	Electronic Universal Micrometer 50-75mm / 2-3”	1300	170	45	302
50-860-004	Electronic Universal Micrometer 75-100mm / 3-4”	1400	170	45	302
50-860-200	7 Piece Multi Anvil Set	53	35	20	55



Code	Range mm/1nch	C mm	L mm	Accuracy mm
50-860-001	0-25 – 0-1	26	42	+/- 0.004
50-860-002	25-50 – 1-2	38	67	+/- 0.004
50-860-003	50-75 – 2-3	50	92	+/- 0.004
50-860-004	75-100 – 3-4	62	118	+/- 0.004

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

Type	Dimensions	Type	Dimensions
Flat		Point	
Spherical		Disk	
Blade		Spline	
		Knife-edge	

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

Select and clean the required special anvils
Lock the fixed anvil in the mid position of its travel
Insert the special anvils into the micrometer fixed anvil and spindle
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:

Clean micrometer spindle and faces
Close faces together using friction thimble
Select either metric or inch 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

Set Tolerance Sizes:

First set Absolute Datum Zero as above
Press “Tol” button once and “UP Arrow” will appear on display
Move micrometer spindle to display upper tolerance size on display
Press “Tol” button once and “Down Arrow” will appear on display
Move micrometer spindle to display lower tolerance size on display
Press “Tol” button once to set upper and lower sizes
When measurement is above the upper tolerance the “Up Arrow” will flash
When measurement is below the lower tolerance the “Down Arrow” will flash
When the measurement is within tolerance the display will not flash
The micrometer will remain on until the Off button is pressed

Return to Absolute measuring mode
Press Datum button to remove “inc” from display
The digits will now display the actual gap size from the original datum setting

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

Select and clean the required special anvils
Lock the fixed anvil in the mid position of its travel
Insert the special anvils into the micrometer fixed anvil and spindle
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:

Clean micrometer spindle and faces
Select metric measuring mode
Clean ends of setting rod supplied with the micrometer
Close anvil and spindle onto setting rod using the friction thimble
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

Set Relative Datum Zero:

First set datum size for Absolute measurement as above
Move micrometer spindle to indicate size required
Press Datum button to zero digits at this position
Micrometer is now ready and will indicate + or - variations from the set zero size

Return to Absolute measuring mode
Press Datum button to remove “inc” from display
The digits will now display the actual gap size from the original datum setting

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