Inside Micrometers

For easy and accurate measurement of inside diameters

Tubular Inside Micrometers SERIES 139, 339, 140 — Extension Pipe Type

- Wide range of inside diameter measurements Order No. 339-101/301/302/102/303/304 possible by combining extension pipes and anvils with the micrometer head.
- Carbide measuring faces are available.
- The sleeve is rotated to adjust the index line position when setting to a length standard.
- An inside length standard is required for accurately setting the micrometer.



- features:
- IP65 (water-proof) protection level that enables use in the presence of cutting fluid.
- A large-character LCD display.
- Storage of 2 preset values for use when setting to an inside length standard.
- A function lock that prevents accidental changing of the reference setting during measurement.
- An output port for measurement data that enables inclusion in a statistical process control or networked measurement system. Refer to page A-3 for details.
- Ability to use Interface Input Tools that enable conversion of measurement data to keyboard signals that are then directly input to cells in off-the-shelf spreadsheet software such as Excel. Refer to page A-5 for details.



These marks indicate that a product has successfully passed IP65-level testing, which is carried out by the independent German certification organization TUV Rheinland.



(Refer to page IX for details.)

IP Codes

- Level 6: Dust-proof.
- No ingress of dust allowed.
- Level 5: Protected against water jets. Water projected in jets against the enclosure from any direction shall have no harmful effects.

Technical Data

Accuracy 339 series

±(3 + number of pipes + maximum measurement length/50)µm (fraction rounded up)

139 series

 \pm (3 + number of pipes + maximum measurement length/50)µm (fraction rounded up)

140 series

 \pm (7 + number of pipes + maximum measurement length/50)µm (fraction rounded up) Excluding quantizing error (only for Digimatic)



Functions (for 339-101/301/302/102/303/304) Zero-setting

Origin restoration Data hold Function lock Automatic power ON/OFF 2-point Preset Error alarm Data output

Battery

(for 339-101/301/302/102/303/304) SR44 (1 pc), 938882, for initial operational checks (standard accessory)

Optional accessories

Refer to page A-21 for details Connecting cables with **IT/DP/MUX**, etc. 1m: **05CZA662** 2m: 05CZA663 USB Input Tool Direct (2m): 06ADV380B Connecting cables for U-WAVE-T For standard (160mm): 02AZD790B For foot switch: 02AZE140B

339-301



SPECIFICATIONS

Metric	i					
Order No.	Range	Recolution	Micrometer		Extension pipes	Display
order No.	Naliye	Nesolution	Micrometer head stroke	Qty	Size	unit
Digimatic (LCI						
339-101	200 - 225mm			-	—	200
339-301	200 - 1000mm	0.001mm	25mm	5	25,50,100,200,400mm	200 - 225mm
339-302	200 - 2000mm			8	25,50,100,200 (2pcs),400 (3pcs)mm	ZZJIIIII

Inch/Metric							
Order No.	der No. Range Resolution		Micrometer		Display		
order No.	Range	Nesolution	Micrometer head stroke	Qty	Size	unit	
Digimatic (LCD							
339-102	8″ - 9″	0004#/			—		
339-303	8" - 40"	.0001"/ 0.001mm	1″	5	1", 2", 4", 8", 16"	8" - 9"	
339-304	8" - 80"	0.00111111		8	1", 2", 4", 8" (2 pcs.), 16" (3 pcs.)]	

Metric	
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Order No.	Range	Graduation	Micrometer head stroke	Qty	Extension pipes Size	Main unit		
Analog								
139-173	100 - 500mm			4	25, 50, 100, 200mm			
139-174	100 - 900mm			5	25, 50, 100, 200, 400mm	100 - 125mm		
139-175	100 - 1300mm		25mm	6	25, 50, 100, 200, 400mm (2 pcs.)			
139-176	100 - 1700mm			7	25, 50, 100, 200, 400mm (3 pcs.)			
139-177	100 - 2100mm	0.01mm	8	25, 50, 100, 200, 400mm (4 pcs.)				
140-157	1000 - 2000mm			5	50, 100 (2 pcs.), 200, 500mm	1000 -		
140-158	1000 - 3000mm	50mm	50mm	6	50, 100 (2 pcs.), 200, 500, 1000mm			
140-159	1000 - 4000mm			50, 100 (2 pcs), 200, 500, 10001111 (2 pcs),	1050mm			
140-160	1000 - 5000mm			8	50, 100 (2 pcs.), 200, 500, 1000mm (3 pcs.)			

Inch							
Order No. Range Graduation		Micrometer		Extension pipes			
order No.	Range	Giauuation	head stroke	Qty	Size	-Main unit	
Analog							
139-178	4" - 20"		1"	4	1", 2", 4", 8"		
139-179	4" - 36"			5	1", 2", 4", 8", 16"	4" - 5"	
139-180	4" - 52"			6	1", 2", 4", 8", 16" (2 pcs.)		
139-181	4" - 68"			7	1", 2", 4", 8", 16" (3 pcs.)		
139-182	4" - 84"	.001 "		8	1", 2", 4", 8", 16" (4 pcs.)		
140-161	40" - 80"			5	2", 4" (2 pcs.), 8", 20"	-40" - 42"	
140-162	40" - 120"			6	2", 4" (2 pcs.), 8", 20", 40"		
140-163	40" - 160"				2", 4" (2 pcs.), 8", 20", 40" (2 pcs.)	40 - 42	
140-164	40" - 200"			8	2", 4" (2 pcs.), 8", 20", 40" (3 pcs.)		

Tubular Inside Micrometers SERIES 139 — Extension Pipe Type (main unit)

- Micrometer head for Extension Pipe Type inside micrometer.
- The sleeve is rotated to adjust the index line position when setting to a length standard
- An inside length standard is required for accurately setting the micrometer.



139-001

SPECIFICATIONS

Metric Order No.	Range	Graduation	Accuracy	Micrometer head stroke
139-001	100 - 125mm	0.01mm	±3µm	25mm
Inch				

Order No. Range		Graduation	Accuracy	Micrometer head stroke	
139-002	4" - 5"	.001 "	±.00015"	1"	

DIMENSIONS



