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.



339-301

- features:
- IP65 (water-proof) protection level that enables use in the presence of cutting fluid.
- A large-character LCD display.

139-177

- 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.

CE CHIEF BERNISH

Inch/Metric



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

339 series

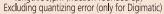
±(3 + number of pipes + maximum measurement length/50)µm (fraction rounded up)

139 series

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

140 series

±(7 + number of pipes + maximum measurement length/50)µm (fraction rounded up)





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**

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Metric								
Order No.	Range	Resolution	Micrometer		Extension pipes	Display		
Order No.	Naliye		head stroke	Qty	Size	unit		
Digimatic (LCI	Digimatic (LCD)							
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	ZZJ[][][]		

Order No.	Range	Resolution	Micrometer head stroke	Micrometer Extension pipes nead stroke Oty Size		Display unit
Digimatic (LCD)						
339-102	8" - 9"	0001#/			_	
339-303	8" - 40"	.0001"/ 0.001mm	1"	5	1", 2", 4", 8", 16"	8" - 9"
339-304	8" - 80"	0.001111111		8	1", 2", 4", 8" (2 pcs.), 16" (3 pcs.)	

Metric							
Order No.	Range	Graduation	Micrometer	flicrometer Extension pipes ead stroke Oty Size		Main	
Order No.	Narige	Graduation	head stroke	Qty	Size	unit	
Analog							
139-173	100 - 500mm		25mm	4	25, 50, 100, 200mm		
139-174	100 - 900mm				5	25, 50, 100, 200, 400mm	100 -
139-175	100 - 1300mm			6	25, 50, 100, 200, 400mm (2 pcs.)	125mm	
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		50mm	5	50, 100 (2 pcs.), 200, 500mm		
140-158	1000 - 3000mm			6	50, 100 (2 pcs.), 200, 500, 1000mm	1000 -	
140-159	1000 - 4000mm	3011	JUITITI	7	50, 100 (2 pcs.), 200, 500, 1000mm (2 pcs.)]1050mm	
140-160	1000 - 5000mm			8	50, 100 (2 pcs.), 200, 500, 1000mm (3 pcs.)		

Inch	ı					
Order No.	Range	Graduation	Micrometer		Extension pipes	Main unit
Order No.	Marige	Graduation	head stroke	Qty	Size	Iviairi uriit
Analog						
139-178	4" - 20"			4	1", 2", 4", 8"	
139-179	4" - 36"			5	1", 2", 4", 8", 16"	
139-180	4" - 52"		1"	6	1", 2", 4", 8", 16" (2 pcs.)	4" - 5"
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"	
140-162	40" - 120"		2"	6	2", 4" (2 pcs.), 8", 20", 40"	40" - 42"
140-163	40" - 160"			7	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.



SPECIFICATIONS

139-001

Metric	ı			
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

