

Digimatic Micrometer

SERIES 293 — with Dust/Water Protection Conforming to IP65 Level

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



• Staubdicht + strahl-
wassergeschützt IP65



MICROMETERS

FEATURES

- IP65 protection level, enabling use in environments exposed to cutting oil, etc*. *Anti-corrosion treatment is required after use.
- Measurement data output function is available with a water-resistant connection cable.
- Oil-resistance materials are used in all plastic components.
- $\pm 1 \mu\text{m}$ instrumental error (75 mm/3" or less range models)
- Auto power ON/OFF function.
- Certificate of inspection* is included. (50mm/2" or less range models) *It is not the type used to obtain calibration certificates.



Technical Data

Display: LCD
Functions: Origin-Set, Zero-Setting, Data hold, Automatic power on/off, inch/mm conversion (inch/mm type only), Data output SR44 (1 pc.) (938882)
Battery: SR44 (1 pc.) (938882)
Battery life: Approx. 1.2 years under normal use
Maximum response speed: Unlimited
Dust/Water protection level: Conforming to IP65
Alarm: Low voltage, counting value composition error
Operating temperature: 0°C to 40°C



SPC cable with data switch

05CZA662: 1m
05CZA663: 2m

OPTIONAL ACCESSORIES

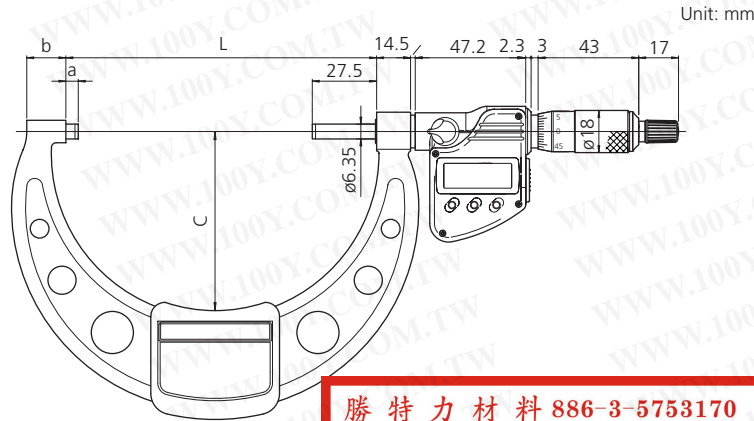
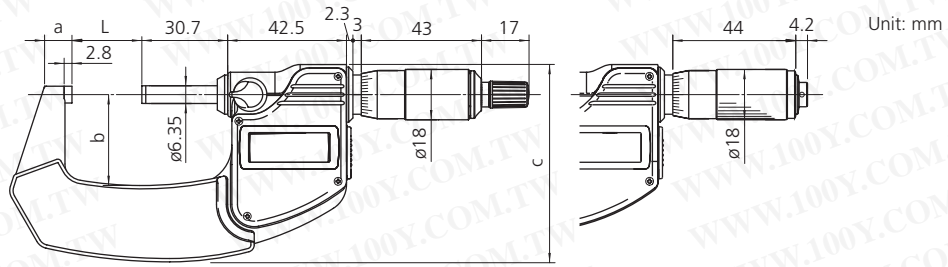
Order No.	Description
05CZA662	SPC cable with data switch (1m)
05CZA663	SPC cable with data switch (2m)
(See page 130.)	Micrometer stands
(See page 276.)	Gauge block set for micrometer inspection

Mitutoyo		CERTIFICATE OF INSPECTION / 検査成績書		Issue No. / 発行No.
1. Item / 対象製品		Digimatic Micrometer		0304040
Product name		Digimatic Micrometer		Measuring range
Model		MDC-25MJ		0-25mm
Code No.		293-230		Resolution
Inspection standard / 検査結果		Mitutoyo standard 1)		0.001mm
Performance / 性能				Serial No.
				35098925
2. Result of inspection / 検査結果		Standard temperature		20 °C
Inspection standard / 検査結果		Mitutoyo standard 1)		
Performance / 性能				
				[μm]
Flatness of measuring face / 平面度	Permissible value / 許容値	Measured value / 実測値		
Anvil / アンビル	0.3	0		
Spindle / スピンドル	0.3	0		
Parallelism of measuring faces / 平行度	1	0.3		
Measuring length / 測定長 (mm)	Permissible value / 許容値	Instrumental error / 器具差	Uncertainty of measurement / 測定の不確かさ	
0.0	0	0	$U_{95} = 1.3$ [k=2]	
7.7	0	0		
12.9	± 1	0		
17.6	± 1	0		
22.8	± 1	0		
25.0	± 1	0		
1) Based on: JIS B 7503 (1994), ISO 3611 (1978)				
Traceable to: NMI/AIST by JCSS No.8008, NIST via No.821/262174-00, No.821/262133-99,				
PTB via No.4599 PTB 00				
3. Judgment / 総合判定		Passed / 合格		
4. QC Manager		E. Otsuka / 大塚 英		
Mitutoyo Corporation				

Certificate of inspection



Dimensions



Range	L	a	b	c
0 - 25mm	0	9	25	(59.8)
25 - 50mm	25	9.8	32	(70.3)
50 - 75mm	50	12.6	47	(91.6)
75 - 100mm	75	14	60	(112.9)
100 - 125mm	132.8	5.3	16.7	(76.5)
125 - 150mm	158.2	5.7	18.8	(91)
150 - 175mm	183.6	6.1	19.1	(103.1)
175 - 200mm	208.8	6.3	18.2	(115.3)
200 - 225mm	234.2	6.7	16.8	(126.8)
225 - 250mm	258	5.5	18	(139.8)
250 - 275mm	284	6.5	18	(152.3)
275 - 300mm	309	6.5	18	(166)

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SPECIFICATIONS

Metric		With ratchet stop	
Range	Order No.	Resolution	Accuracy
0 - 25mm	293-230 / 293-240*	0.001mm	±1µm
25 - 50mm	293-231 / 293-241*	0.001mm	±1µm
50 - 75mm	293-232 / 293-242*	0.001mm	±1µm
75 - 100mm	293-233 / 293-243*	0.001mm	±2µm
100 - 125mm	293-250	0.001mm	±2µm
125 - 150mm	293-251	0.001mm	±2µm
150 - 175mm	293-252	0.001mm	±3µm
175 - 200mm	293-253	0.001mm	±3µm
200 - 225mm	293-254	0.001mm	±3µm
225 - 250mm	293-255	0.001mm	±4µm
250 - 275mm	293-256	0.001mm	±4µm
275 - 300mm	293-257	0.001mm	±4µm

Inch/Metric		With ratchet stop	
Range	Order No.	Resolution	Accuracy
0 - 1"	293-330 / 293-340*	.00005"/0.001mm	±.00005"
1" - 2"	293-331 / 293-341*	.00005"/0.001mm	±.00005"
2" - 3"	293-332 / 293-342*	.00005"/0.001mm	±.00005"
3" - 4"	293-333 / 293-343*	.00005"/0.001mm	±.0001"
4" - 5"	293-350	.00005"/0.001mm	±.0001"
5" - 6"	293-351	.00005"/0.001mm	±.0001"
6" - 7"	293-352	.00005"/0.001mm	±.00015"
7" - 8"	293-353	.00005"/0.001mm	±.00015"
8" - 9"	293-354	.00005"/0.001mm	±.00015"
9" - 10"	293-355	.00005"/0.001mm	±.0002"
10" - 11"	293-356	.00005"/0.001mm	±.0002"
11" - 12"	293-357	.00005"/0.001mm	±.0002"

Metric		With ratchet thimble	
Range	Order No.	Resolution	Accuracy
0 - 25mm	293-234 / 293-244*	0.001mm	±1µm
25 - 50mm	293-235 / 293-245*	0.001mm	±1µm
50 - 75mm	293-236 / 293-246*	0.001mm	±1µm
75 - 100mm	293-237 / 293-247*	0.001mm	±2µm

Inch/Metric		With ratchet thimble	
Range	Order No.	Resolution	Accuracy
0 - 1"	293-334 / 293-344*	.00005"/0.001mm	±.00005"
1" - 2"	293-345*	.00005"/0.001mm	±.00005"
2" - 3"	293-346*	.00005"/0.001mm	±.00005"
3" - 4"	293-347*	.00005"/0.001mm	±.0001"

Metric		With friction thimble	
Range	Order No.	Resolution	Accuracy
0 - 25mm	293-238 / 293-248*	0.001mm	±1µm

Inch/Metric		With friction thimble	
Range	Order No.	Resolution	Accuracy
0 - 1"	293-335 / 293-348*	.00005"/0.001mm	±.00005"
1" - 2"	293-336	.00005"/0.001mm	±.00005"

*without SPC data output

*without SPC data output

