Electronic Equipment



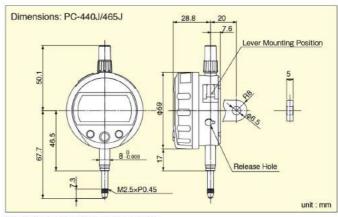
Electronic Digital Indicator (0.01 / 0.001mm), PC-Series

- Data output and statistics transaction can be easily made by using digital indicator.
- 0.01mm and 0.001mm resolution digital indicators are available.
- · Standard models are equipped with preset function and conventional models deleting preset functions are available.



Measuring Range 12.7mm Type / Standard Model





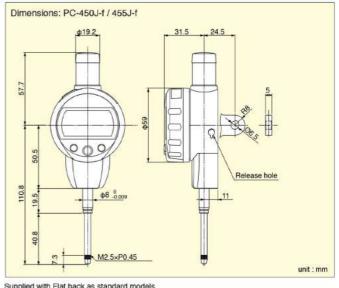
Supplied with Lug back as standard models. Flat back and Lift lever are optional.





Measuring Range 25.4mm Type / Standard Model

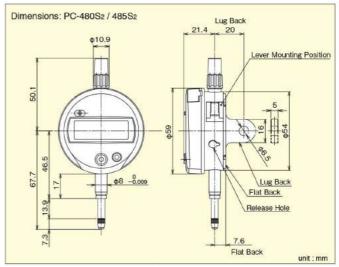




Supplied with Flat back as standard models. Lug back and Lift lever are optional.

Measuring Range 12.7mm Type / Popular Model





Supplied with Lug back as standard models. Flat back and Lift lever are optional.

Specifications

Model	PC-440J	PC-465J	PC-450J-f	PC-455J-f	PC-480S ₂	PC-485S2
Measuring Range		0~12.7mm	0-25.4mm		0~12.7mm	
Resolution	0.01mm	0.001mm	0.01mm	0.001mm	0.01mm	0.001mm
Accuracy	0.02mm*	0.003mm*	0.02mm or less	0.003mm	0.02mm or less*	0.003mm or less*
Maximum response speed	1000mm/sec	480mm/sec	480mm/sec	480mm/sec	Un	limited
Contact force	1.0N or less	1.5N or less*		1.8N or less*	2.0N	or less*
Display	LCD display (6-digital & minus) LCD display (5-digi			LCD display (5-digital & minus)	LCD display (6-digital & minus)	
Operating temp	0~40℃					
Functions		Preset, Zero-set, Power OM/OFF, Counting direction switching, Digimatic code output			Origin-set, Power ON/OFF, Counting direction Sw Digimatic code output Display rotation(330°)	
Power supply			SR44 (Bu	utton, Silver oxide cell)	197	
Battery life		Approx. 5,00	Ohours in continuous service		Approx. 20,000hou	rs in continuous service
Contact Point			R=	1.5mm (carbide)		
Contact point thread (ISO/JIS type)			N	12.5×P0.45mm		
Weight		170a		186g	120g	150g

^{*} The quantising error is not included.

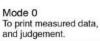


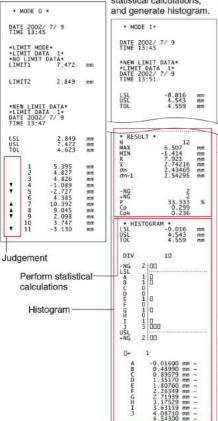
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Digital Mini Printer

· Multi-function mini printer for Digital Indicator







Options

Model	Accessories
ZE-304	Recording Paper (10 packs)
ZE-110	RS-232C conversion cable 9 pins for AT connector
ZE-018	Extension cable 1m
ZE-019	Extension cable 2m
ZE-020	Extension cable 5m
ZE-109	Judgment result output cable
ZE-013	Foot switch

Mode 1 To print measured data, judgement, perform statistical calculations,

a, Mode 2
To print D-chart, perform statistical calculations, and generate histogram.

2002/	7/9	
 1	-3.132	mm
2	1.782	min
3	2.608	mm
4	6.590	mm
5	-0.737	mo
6	-0.737	mm
0	1.705	min
8	1.705	mm
CANCE	L *	
8	1.925	mm
9	1.762	mm
10	4.316	mm

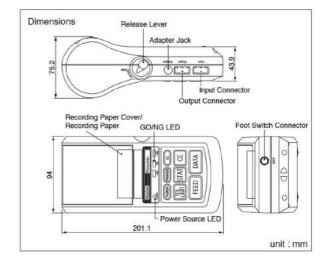
USL TOL	0.452 3.591 3.139	mm mm
Ļ	c	U
5.023nm 6.959nm 3.354nm 2.964nm 1.373nm -0.339nm 1.457nm 4.316nm 0.819nm 10		

Mode 3 By entering data, it will calculate and draw a

entering data, it will calculate and draw a R-control chart.

* EXIT SUB GR. *
CLEAR ALL DATA

400000	
7/ 9	
GR. 1 E 9	
1.14478	nm mm
1.14200	mm mm
	GR. 1 E 9 1.14478 1.52963 0.75992



Item	Description	Remarks
Printing Method	Line thermal 384 dot	
Character format	36 × 24 (Large) 24 × 16 (Normal)	
Printing Speed	0.5 sec. per line	When using AC adapter
Printing line numbers	6500 lines / 1 roll (normal)/	
per printing roll	12000 lines / 1 roll (large)	
Power supply	AC adapter (6V, 500 mA)	Dual power supply
	4 Alkali batteries size AA (LR6)	*AC adapter input voltage
	or 4 size AA Ni-MH batteries	within a range of 100VAC 5%
Operating Temperature	0 ~ 45°C (AC Adapter)	D 7550
754 178 W	10 ~ 45°C (batteries)	
Storage Temperature	-10 ~ 50°C	In a package as specified by TECLOCK
Accuracy	2 min. max / month	
Clock battery life	Approx. 10 years	Average life expectancy
expectancy	D 75 Was, 74 D 71 Decret D 8 P 85 C.	2.400.000.000.000.000.000.000.000.000.00
Battery life	10000 lines 1600 mAh Ni-MH	Average life expectancy but varies with
	Printing every 5 sec.	usage
Dimensions	201.1 × 94 × 75.2 (D × W ×H)	
Weight	390 g	Without accessories
Printouts	Measurements, GO/NG judgment	Mode 0
	results	
	Measurements, GO/NG judgment	Mode 1
	results, Number of measurements,	10.19546.40
	MAX., MIN., Range, Standard deviation	
	(σ -n, σ n-1), Number of defects,	
	Percentage of defects, Process	
	capability index (Cp, Cpk), Histogram	
	Same as above plus D-Chart	Mode 2
	Function of calculating the center value	Mode 3
	between the control limits required for	COORDINATE CO.
	generating various control charts	
Processing capability	100000	Mode 0
	9999	Both Mode 1 and 2
	10 × 9999 = 99990	Mode3
	(Sample size × Number of sub-groups	
	= total number of measurements)	
	5 sets of limit data	
Output function	Measured data (RS-232C, TTL level)	
	GO/NG	
	Judgment results (+NG, GO, -NG)	
Timer-controlled data	0.25 sec, 1 sec, 5 sec, 30 sec, 1 min,	
input	30 min, 60 min.	
Standard accessories	AC Adapter	100V~240V ZE-217
Ctandard account of	no nauptor	(JAPAN, USA, KOREA)
		100V~240V ZE-218
		(GERMANY)
		100V~240V ZE-219
		(U.K. and Other)
	Recording paper: 1 pc.	When ordering
	(58 mm (W) 48 m (L))	Part No. ZE-304
	(50 mm (W) 40 m (L))	(10 packs.)
	Strap	ZY-111
	Quick Reference	Q-036
	Operation manual	Q-035

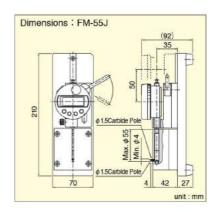


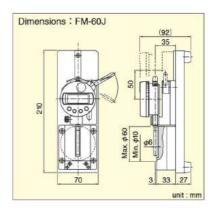


Digital Comparator

- These are exclusive equipments which comparatively measure dimension of internal diameter and outer diameter.
- After placing master gauge on measuring table and setting up standard value (zero point set up), tolerance judging measurement against standard value is possible by measuring work piece.
- · Cemented carbide is provided to stylus and anvil (anvil pin).
- Special made products are complied for the measuring range except for below.









Effective for measuring internal diameter of thin ring (FM-55)

Specifications

Model	Resolution (mm)	Gauge Accuracy* (mm)	Measuring Range (mm)	Indicating Range (mm)	Measuring Force (N)
FM-55	0.001	0.003	4~55	12	1.5 or less
FM-60	0.001	0.003	10~60	12	1.5 or less

*The quantizing error is not included.

Both models can print out data with SD-763P digital mini printer and ZE-018 connection cable.

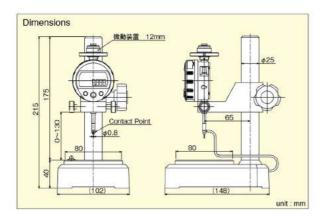




Adjusting Knob

Sensor Gauge Digital Type

- Springs and pressed parts which are used for precision equipments, computer terminal and home electric goods can be measured just before their shapes are changed due to measuring force.
- If detecting contact between sensor (contact point) and work piece by energizing, it simultaneously sounds (buzzer) when LED lamp is lighting. Then read the value which is detected.
- · Micro-motion is adjusted by 12mm with upper knob.
- · Work piece of maximum 150mm can be measured by using block gauge.
- As detection is implemented by energizing, work piece which is not energized can not be measured.





Coarse Knob

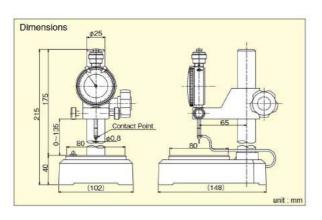
Specifications

Model	Display	Resolution (mm)	Indicating Range (mm)	Measuring Range (mm)	Gauge Error (µm)	Specimen Table Size (mm)	Power Supply	Weight (kg)
SD-465A	Digital	0.001	12	Max. 150	±3*1	W80×D80	DC3V (AA size battery×2) *2	3.4

¹¹ The quantizing error is not included. 22 SR-44 battery for digital indicator

Sensor Gauge Dial Type

· Micro-motion is adjusted by 10mm with upper knob.





Specifications

	Model	Display	Resolution (mm)	Indicating Range (mm)	Measuring Range (mm)	Gauge Error (μm)	Specimen Table Size (mm)	Power Supply	Weight (kg)
77	SD-101A	Dial (Analog)	0.01	10	Max. 150	±15	W80×D80	DC3V (AA size battery×2)	3.4

• Specification of minimum display 0.01mm digital type, that of dial type of its graduation 0.001mm and type without stand can be produced with treatment of special order. Please contact our branch nearby for detail.