



DIGIMATIC INDICATORS ID-C Series

For Calculation, Peak-Value Hold and Bore Gage Applications



Digimatic Indicators For Calculation Applications

FEATURES





- Entering the appropriate formula factors for a fixture dedicated to the application enables direct measurement readout, thereby eliminating any need for the conversion tables previously needed for those applications where fixtures are typically used.
- Peak-Value TIR/MAX/MIN Hold enables GO/±NG judgement for peak value.
- Simple operation of many functions with five buttons and status icons.
- Wide LCD and new analog bar graph are now standard on all models.
- It performs sampling in fifty times per second and it enables to detect peak value more correctly.







SPECIFICATIONS

Type/Model							
Order No.							
Measuring range							
Magnification and	linearity (overall) *1						
Hysteresis *1	•						
Repeatability *1							
Stem diameter							
Display rotate							
Resolution (selecta							
Analog bar display	1						
Preset							
Tolerance judg Peak detection Calculation	ment						
'⊕ Peak detection							
.≒ Calculation							
Others	Others						
Data output							
Input from PC (De							
Key lock (set from instrument or PC)							
Parameter lock (set from PC)							
Detection method							
Response speed							
Measurement Normal mode							
	Peak detection	FAST mode OFF					
frequency	mode	FAST mode ON					
Power supply							
Battery life (normal use) *2							
Type of back							

Digimatic Indicators For Peak-Value Hold Applications



FEATURES

- Peak-Value TIR/MAX/MIN Hold enables GO/±NG judgement for peak value.
- Simple operation of many functions with five buttons and status icons.
- Wide LCD and new analog bar graph are now standard on all models.
- It performs sampling in fifty times per second and it enables to detect peak value more correctly.







SPECIFICATIONS

Type/Model						
Order No.						
Measuring range						
Magnification and linearity (overall) *1						
Hysteresis *1	•					
Repeatability *1						
Stem diameter						
Display rotate						
Resolution						
Analog bar display						
Preset						
Tolerance judg	ment					
Peak detection	<u> </u>					
Calculation	Tolerance judgment Tolerance judgment Tolerance judgment Calculation Others					
Data output						
Input from PC (De						
	instrument or PC)					
	Parameter lock (set from PC)					
	Detection method					
Response speed						
Measurement	Normal mode					
frequency	Peak detection	FAST mode OFF				
FAST mode U						
Power supply						
Battery life (norma	al use) *²					
Type of back						
Not woight						

Digimatic Indicators For Bore Gage Applications



FEATURES

- Dedicated for inside measurement with minimum value hold and tolerance judgement
- Measurement data memory function (9 measurement results can be stored)
- Simple operation of many functions with five buttons and status icons.
- Wide LCD and new analog bar graph are now standard on all models.
- It performs sampling in fifty times per second and it enables to detect peak value more correctly.







SPECIFICATIONS

3F LCII ICA	110113					
Type/Model		'				
Order No.						
Measuring range						
Magnification and	linearity (overall) *	1				
Hysteresis *1						
Repeatability *1						
Stem diameter						
Display rotate						
Resolution						
Analog bar display	1					
Preset						
E Tolerance jud	gment					
Peak detection	n					
E Calculation	Tolerance judgment Peak detection Calculation Others					
Others						
Data output						
Input from PC (De						
Key lock (set from instrument or PC)						
Parameter lock (se						
Detection method						
Response speed						
Measurement	Normal mode					
frequency	Peak detection	FAST mode OFF				
1 7 mode FAST mode ON						
Power supply						
Battery life (normal use) *2						
Type of back						
Net weight						



Calculation									
543-340B	543-341B	543-342B	543-590B	543-591B	543-592B	543-595B	543-596B	543-597B	
12.7 mm		5" = 12.7 mm	25.4 mm	1	" = 25.4 mm	50.8 mm		2" = 50.8 mm	
0.003 mm	±.00	0010" / 0.003 mm	0.003 mm	±.00	010" / 0.003 mm	0.006 mm	5 mm ±.00025" / 0.006 mm		
0.002 mm	.000	010" / 0.002 mm	0.002 mm		010" / 0.002 mm	0.002 mm	.00010" / 0.002 mm		
0.002 mm	.000	010" / 0.002 mm	0.002 mm	.000	010" / 0.002 mm	0.002 mm	.000	010" / 0.002 mm	
ø8r	mm	ø9.52mm=.375"(3/8") DIA	ø81		ø9.52mm=.375"(3/8") DIA	ø8mm ø9.52mm=.375"(3/8'		ø9.52mm=.375"(3/8") DIA	
				330°					
				12 steps					
				±20 scale					
					3) can be set and stored.				
		Fo	our sets of upper and		P3 and INC) can be set and stored				
TIR, Max, Min									
Displayed value = $Ax'+B+Cx'^{-1}$ ($x' = plunger displacement + offset$)									
Display value HOLD									
Digimatic									
Yes Yes									
Yes									
Yes									
Capacitance-type absolute-linear-encoder									
infinite									
10 times/sec									
50 times/sec									
 CR2032 x 1 pc.									
 Approx. 1 year									
 Flat									
 170 q 190 q 260 q									
1009									

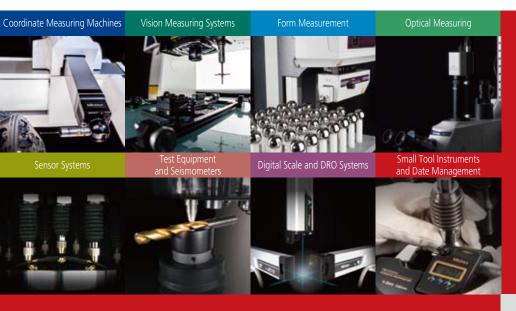
^{*1} Does not include quantizing error (±1 count). Valid for resolution set to 0.001mm/'.00005' and coefficients A=1, B=0 and C=0.
*2 When data processors are not connected. Battery life depends on use of the indicator. Use the above value as a guide only. (TIP) Battery life with Peak detection mode and FAST mode ON is about 10 months.

Peak-value hold						
543-300	543-300B	543-301	543-301B	543-302	543-302B	
	7 mm	.5" = 12.7 mm				
	0.003 mm ±.00010* / 0.003 mm					
	2 mm			0.002 mm		
0.00	2 mm		.00010" /			
	ø8	mm	200	ø9.52mm=.3	/5"(3/8") DIA	
0.004/6	2.04	3.	30°	TII // 0.004 /0.04		
0.001/0	0.01 mm	. 20		5" // 0.001/0.01 mm		
		Three Procet values (P1 P2 a	scales and P3) can be set and stored.			
		iour sets of upper and lower limits (P1	, P2, P3 and INC) can be set and store	d		
	ı			u.		
	TIR, Max, Min Ax					
	Display value HOLD					
	Dispray value: Frot Dispra					
	Yes					
	Yes					
Yes						
	Capacitance-type absolute-linear-encoder					
infinite						
	10 times/sec					
	50 times/sec					
	CR2032 x 1 pc.					
Wester I	Approx. 1 year With lug Flat With lug Flat With lug Flat					
With lug			Flat	With lug	Flat	
180 g	170 g	180 g	170 g	195 g	170 g	

^{*1} Does not include quantizing error (±1 count). Valid for resolution set to 0.001mm/'.00005" and coefficient A=1.
*2 When data processors are not connected. Battery life depends on use of the indicator. Use the above value as a guide only. (TIP) Battery life with Peak detection mode and FAST mode ON is about 4.5 months.

	Bore gage					
	543-310B	543-311B	543-312B			
	12.7 mm	.5" = 12.7 mm				
	0.003 mm	±.00010" / 0.003 mm				
	0.002 mm	.00010" / 0.002 mm				
	0.002 mm	.00010" / 0.002 mm				
	ø8r		ø9.52mm=.375"(3/8") DIA			
		330°				
	0.001/0.01 mm	.00005/.0001/.0005	" // 0.001/0.01 mm			
		±20 scales				
	Three Preset values (P1, P2 and P3) can be set and stored.					
	Three sets of upper and lower limits (P1, P2 and P3) can be set and stored.					
	Min					
	Measurement data memory (9 measurement results can be stored), Display value HOLD					
	Digimatic					
	Yes					
	Yes					
	Yes Consideration of the Constant of the Const					
	Capacitance-type absolute-linear-encoder infinite					
	Illimies 10 times/sec					
	50 times/sec					
	CR2032 x 1 pc.					
	Approx. 1 year					
	Flat					
_	170 g					

^{*1} Does not include quantizing error (±1 count). Valid for resolution set to 0.001mm/'.00005".
*2 When data processors are not connected. Battery life depends on use of the indicator. Use the above value as a guide only. (TIP) Battery life with Peak detection mode and FAST mode ON is about 4.5 months.



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