Mitutoyo

DIGIMATIC INDICATORS

ID-C Series

For Calculation, Peak-Value Hold and Bore Gage Applications



Mitutoyo

Digimatic Indicators

For Calculation Applications



FEATURES

- Calculation function operates on spindle displacement.
- 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	ble)	-			
Analog bar display	1				
Preset					
Tolerance judg Peak detection Calculation	ment	-			
Peak detection		-			
.≒ Calculation					
Others					
Data output					
Input from PC (Dedicated I/F)					
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					
Net weight					

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) 7	k1			
Repeatability *1					
Stem diameter					
Display rotate					
Resolution					
Analog bar display	1				
Preset					
Tolerance judg					
Tolerance judgment Peak detection Calculation					
Calculation					
Others					
Data output	disated I/F\				
Input from PC (De					
	instrument or PC)				
Parameter lock (se Detection method					
Response speed					
Nesponse speed	Normal mode				
Measurement	Peak detection	FAST mode OFF			
frequency	mode	FAST mode ON			
Power supply	mode	I AST HOUSE ON			
Battery life (norma	al (ISP) *2				
Type of back	ii use,				
Net weight					
TVCE VVCIGITE					

Digimatic Indicators



FEATURES

- Dedicated for inside measurement with minimum value hold and tolerance judgement function.
- 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

	Order No.					
	Measuring range					
	Magnification and linearity (overall) *1					
	Hysteresis *1					
	Repeatability *1					
	Stem diameter					
	Display rotate					
	Resolution					
	Analog bar display					
	Preset					
	Tolerance judgment Peak detection Calculation Others					
	· 문 Peak detection					
	.≒ Calculation					
	Others					
	Data output					
	Input from PC (Dedicated I/F)					
	Key lock (set from instrument or PC)					
	Parameter lock (set from PC)					
	Detection method					
	Response speed					
	Measurement Normal mode					
	fraguency Peak detection FAST mode OFF					
	mode FAST mode ON					
Power supply						
Battery life (normal use) *2						
	Type of back					
	Not woight					



	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	010" / 0.003 mm	0.003 mm	±.00010" / 0.003 mm		0.006 mm	±.00025" / 0.006 mm	
	0.002 mm		010" / 0.002 mm	0.002 mm	.00010" / 0.002 mm		0.002 mm	.00010" / 0.002 mm	
	0.002 mm		010" / 0.002 mm	0.002 mm		10" / 0.002 mm	0.002 mm		010" / 0.002 mm
	ø81	mm	ø9.52mm=.375"(3/8") DIA	ø81	mm	ø9.52mm=.375"(3/8") DIA	ø8mm ø9.52mm=.375"(3/8") DIA		
					330°				
					12 steps				
				TI 5	±20 scale				
\rightarrow						3) can be set and stored.			
-			FC	our sets of upper and		P3 and INC) can be set and stored	l		
-	TIR, Max, Min								
\rightarrow	Displayed value = $Ax'+B+Cx'^-$ (x' = plunger displacement + offset)								
	Display value HOLD								
-	Digimatic Yes								
	res								
	res Yes								
	Capacitance-type absolute-linear-encoder								
	Capacitance-type advantage infinite								
	10 times/sec								
	50 times/sec								
	CR2032 x 1 pc.								
	Approx. 1 year								
	Flat								
		170 g			190 g			260 g	

^{*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					
	13 mm	±.00010" / 0.003 mm					
	2 mm	.00010" / 0.002 mm					
0.00	12 mm	.00010" / 0.002 mm					
		mm	200	ø9.52mm=.3	/5"(3/8") DIA		
330°							
0.001/	0.01 mm	. 20		" // 0.001/0.01 mm			
			scales and P3) can be set and stored.				
		our sets of upper and lower limits (P1	, P2, P3 and INC) can be set and store	d			
	I	TIR M	av Min	u.			
TIR, Max, Min Ax							
Display value HOLD							
Display value i note Diginatic							
			'es				
Yes							
Yes							
Capacitance-type absolute-linear-encoder							
infinite							
10 times/sec							
50 times/sec							
CR2032 x 1 pc.							
With lug	Flat	Approx. 1 year With lug Flat With lug Flat			Flat		
180 g	170 g	180 g	170 q	195 q	170 a		
100 g	1709	100 g	1709	155 Y	170 9		

^{*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	2.7 mm				
0.003 mm	±.00010"/	0.003 mm				
0.002 mm	.00010" / 0.002 mm					
0.002 mm	.00010" /					
ø8r	nm	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						
Capacitance-type absolute-linear-encoder						
infinite						
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.



Whatever your challenges are, Mitutoyo supports you from start to finish.

Mitutoyo is not only a manufacturer of top quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver bespoke measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.

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