

DIGIMATIC INDICATORS ID-C Series

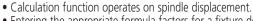
For Calculation, Peak-Value Hold and Bore Gage Applications



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	ment						
Peak detection							
Calculation							
Others							
Data output	-l:+l 1/F\						
Input from PC (De		\					
Key lock (set from)					
Parameter lock (se	L ITOTTI PC)						
Detection method							
response speed	Response speed Normal mode						
Measurement	Peak detection	FAST mode OFF					
frequency	mode	FAST mode ON					
Power supply							
Battery life (normal use) *2							
Type of back							
Net weight							
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

OTUCT 140.					
Measuring range					
Magnification and linearity (overall) *1					
Hysteresis *1					
Repeatability *1					
Stem diameter					
Display rotate					
Resolution					
Analog bar display	1				
Preset					
Tolerance judg Peak detection Calculation Others	ment				
Peak detection					
Others					
Data output					
Input from PC (De	dicated I/F)				
Key lock (set from	instrument or PC)				
Parameter lock (se	t 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					

Digimatic Indicators For Bore Gage Applications



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.







Type of back

Type/Model		
Order No.		
Measuring range		
Magnification an	d linearity (overall)) *1
Hysteresis *1		
Repeatability *1		
Stem diameter		
Display rotate		
Resolution		
Analog bar displa	ay	
Preset	-	
Tolerance jud Peak detection Calculation		
Peak detection	on	
S Calculation		
Others		
Data output		
Input from PC (D		
	n instrument or PC	()
Parameter lock (s		
Detection method	<u>d</u>	
Response speed		
Measurement	Normal mode	
frequency	Peak detection	FAST mode OFF
. ,	mode	FAST mode ON
Power supply		
Battery life (norm	ial 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	7 mm 25.4 mm 1" = 25.4 mm		50.8 mm	2" = 50.8 mm		
0.003 mm		010" / 0.003 mm	0.003 mm	±.00010" / 0.003 mm		0.006 mm	±.00025" / 0.006 mm	
0.002 mm		10" / 0.002 mm	0.002 mm		10" / 0.002 mm	0.002 mm	.00010" / 0.002 mm	
0.002 mm		10" / 0.002 mm	0.002 mm		10" / 0.002 mm	0.002 mm	.00010" / 0.002 mm	
ø8n	nm	ø9.52mm=.375"(3/8") DIA	ø8r				ø9.52mm=.375"(3/8") DIA	
				330°				
				12 steps				
				±20 scales				
					3) can be set and stored.			
		FC	our sets of upper and		P3 and INC) can be set and stored	d.		
TIR, Max, Min								
Displayed value = $Ax'+B+Cx'^{-1}$ ($x' = plunger displacement + offset$)								
Display value HOLD								
Digimatic								
Yes Yes								
res Yes								
Capacitance-type absolute-linear-encoder								
Capacitance-type aboutement-encoder 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			12.7 mm		
)3 mm	±.00010" / 0.003 mm				
		02 mm			/ 0.002 mm		
	0.00	02 mm		.00010" /	0010" / 0.002 mm		
_		ø8	mm		ø9.52mm=.37	75"(3/8") DIA	
_	0.004	0.04	3:	30°	F		
	0.001/0	0.01 mm	20		5" // 0.001/0.01 mm		
_				scales			
+		-	Inree Preset Values (P1, P2 a	nd P3) can be set and stored.			
+			our sets of upper and lower limits (P1	, PZ, P3 and INC) can be set and stor	eu.		
+	TIR, Max, Min						
+	Ax Display value HOLD						
$^{+}$				matic			
+				és			
\top				'és			
T	Yes						
	Capacitance-type absolute-linear-encoder						
	infinite						
	10 times/sec						
_	50 times/sec						
\perp							
\perp				2 x 1 pc.			
				k. 1 year			
+	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					
0.002 mm	.00010" /				
0.002 mm	.00010" /				
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.				
	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					
1709					

^{*1} Does not include quantizing error (±1 count). Valid for resolution set to 0.001mm/ 0.0005".
*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 measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.



Find additional product literature and our product catalog

www.mitutoyo.com

Note: All information regarding our products, and in particular the illustrations, drawings, dimensional and performance data contained in this printed matter as well as other technical data are to be regarded as approximate average values. We therefore reserve the right to make changes to the corresponding designs. The stated standards, similar technical regulations, descriptions and illustrations of the products were valid at the time of printing. In addition, the latest applicable version of our General Trading Conditions will apply. Only quotations submitted by ourselves may be regarded as definitive. Specifications are subject to change without notice.

Mitutoyo products are subject to US Export Administration Regulations (EAR). Re-export or relocation of our products may require prior approval by an appropriate governing authority.

Trademarks and Registrations

Designations used by companies to distinguish their products are often claimed as trademarks. In all instances where Mitutoyo America Corporation is aware of a claim, the product names appear in initial capital or all capital letters. The appropriate companies should be contacted for more complete trademark and registration information.



Mitutoyo America Corporation

www.mitutoyo.com One Number to Serve You Better 1-888-MITUTOYO (1-888-648-8869)

M³ Solution Centers:

Aurora, Illinois (Headquarters) Boston, Massachusetts Huntersville, North Carolina Mason, Ohio Plymouth, Michigan City of Industry, California Birmingham, Alabama Renton, Washington Houston, Texas