

DIGIMATIC INDICATORS ID-C Series

For Calculation, Peak-Value Hold and Bore Gage Applications

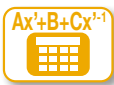


Digimatic Indicators For Calculation Applications



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 the need for conversion tables previously needed for those applications where fixtures are typically used.
- Peak-Value TIR/MAX/MIN Hold enables GO/±NG judgment for peak value.
- Simple operation of many functions using five buttons and status icons.
- Wide LCD and new analog bar graph are now standard on all models.
- Performs sampling at 50 times per second and detects peak value more correctly.



Digimatic Indicators For Peak-Value Hold Applications



FEATURES

- Peak-Value TIR/MAX/MIN Hold enables GO/±NG judgment for peak value.
 - Simple operation of many functions using five buttons and status icons.
 - Wide LCD and new analog bar graph are now standard on all models.
- Performs sampling at 50 times per second and detects peak value more correctly.



Digimatic Indicators For Bore Gage Applications



FEATURES

- Dedicated for inside measurement with minimum value hold and tolerance judgment function.
- Measurement data memory function (9 measurement results can be stored)
- Simple operation of many functions using five buttons and status icons.
- Wide LCD and new analog bar graph are now standard on all models.
- Performs sampling at 50 times per second and detects peak value more correctly.



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SPECIFICATIONS

Type/Model			Calculation									
Order No.			543-340B	543-341B	543-342B	543-590B	543-591B	543-592B	543-595B	543-596B	543-597B	
Measuring range			12.7 mm	.5" = 12.7 mm		25.4 mm	1" = 25.4 mm		50.8 mm	2" = 50.8 mm		
Magnification and linearity (overall) *1			0.003 mm	±.00010" / 0.003 mm		0.003 mm	±.00010" / 0.003 mm		0.006 mm	±.00025" / 0.006 mm		
Hysteresis *1			0.002 mm	.00010" / 0.002 mm		0.002 mm	.00010" / 0.002 mm		0.002 mm	.00010" / 0.002 mm		
Repeatability *1			0.002 mm	.00010" / 0.002 mm		0.002 mm	.00010" / 0.002 mm		0.002 mm	.00010" / 0.002 mm		
Stem diameter			ø8mm		ø9.52mm=.375" (3/8") DIA		ø8mm		ø9.52mm=.375" (3/8") DIA		ø8mm	
Display rotate			330°									
Resolution (selectable)			12 steps									
Analog bar display			±20 scales									
Functions	Preset			Three Preset values (P1, P2 and P3) can be set and stored.								
	Tolerance judgment			Four sets of upper and lower limits (P1, P2, P3 and INC) can be set and stored.								
	Peak detection			TIR, Max, Min								
	Calculation			Displayed value = Ax'+B+Cx ⁻¹ (x' = plunger displacement + offset)								
	Others			Display value HOLD								
Data output			Digimatic									
Input from PC (Dedicated I/F)			Yes									
Key lock (set from instrument or PC)			Yes									
Parameter lock (set from PC)			Yes									
Detection method			Capacitance-type absolute-linear-encoder									
Response speed			infinite									
Measurement frequency	Normal mode		10 times/sec									
	Peak detection mode	FAST mode OFF										
		FAST mode ON										
Power supply			50 times/sec									
Battery life (normal use) *2			CR2032 x 1 pc.									
Type of back			Approx. 1 year									
Net weight			Flat			190 g			260 g			
			170 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.

SPECIFICATIONS

Type/Model			Peak-value hold						
Order No.			543-300	543-300B	543-301	543-301B	543-302	543-302B	
Measuring range			12.7 mm		.5" = 12.7 mm				
Magnification and linearity (overall) *1			0.003 mm		±.00010" / 0.003 mm				
Hysteresis *1			0.002 mm		.00010" / 0.002 mm				
Repeatability *1			0.002 mm		.00010" / 0.002 mm				
Stem diameter			ø8mm				ø9.52mm= .375" (3/8") DIA		
Display rotate			330°						
Resolution			0.001/0.01 mm		.00005/.0001/.0005" // 0.001/0.01 mm				
Analog bar display			±20 scales						
Functions	Preset			Three Preset values (P1, P2 and P3) can be set and stored.					
	Tolerance judgment			Four sets of upper and lower limits (P1, P2, P3 and INC) can be set and stored.					
	Peak detection			TIR, Max, Min					
	Calculation			Ax					
	Others			Display value HOLD					
Data output			Digimatic						
Input from PC (Dedicated I/F)			Yes						
Key lock (set from instrument or PC)			Yes						
Parameter lock (set from PC)			Yes						
Detection method			Capacitance-type absolute-linear-encoder						
Response speed			infinite						
Measurement frequency	Normal mode	10 times/sec							
	Peak detection mode	50 times/sec							
	FAST mode OFF								
Power supply			CR2032 x 1 pc.						
Battery life (normal use) *2			Approx. 1 year						
Type of back			With lug	Flat	With lug	Flat	With lug	Flat	
Net weight			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.

SPECIFICATIONS

Type/Model			Bore gage		
Order No.			543-310B	543-311B	543-312B
Measuring range			12.7 mm	.5" = 12.7 mm	
Magnification and linearity (overall) *1			0.003 mm	±.00010" / 0.003 mm	
Hysteresis *1			0.002 mm	.00010" / 0.002 mm	
Repeatability *1			0.002 mm	.00010" / 0.002 mm	
Stem diameter			ø8mm		ø9.52mm=.375"(3/8") DIA
Display rotate			330°		
Resolution			0.001/0.01 mm	.00005/.0001/.0005" // 0.001/0.01 mm	
Analog bar display			±20 scales		
Functions	Preset		Three Preset values (P1, P2 and P3) can be set and stored.		
	Tolerance judgment		Three sets of upper and lower limits (P1, P2 and P3) can be set and stored.		
	Peak detection		Min		
	Calculation		—		
	Others		Measurement data memory (9 measurement results can be stored), Display value HOLD		
Data output			Digimatic		
Input from PC (Dedicated I/F)			Yes		
Key lock (set from instrument or PC)			Yes		
Parameter lock (set from PC)			Yes		
Detection method			Capacitance-type absolute-linear-encoder		
Response speed			infinite		
Measurement frequency	Normal mode		10 times/sec		
	Peak detection mode	FAST mode OFF			
		FAST mode ON	50 times/sec		
Power supply			CR2032 x 1 pc.		
Battery life (normal use) *2			Approx. 1 year		
Type of back			Flat		
Net weight			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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