SUITABLE FOR SMALL SURFACES, CONCAVE OR CONVEX SURFACES

FOR MAGNETIC AND NON-MAGNETIC SUBSTRATES

COATING THICKNESS GAGE







magnetic induction probe Fe (optional) ISO-2000FN-FE



eddy current probe NFe (optional) ISO-2000FN-NFE

- Suitable for small surfaces, concave or convex surfaces
- Magnetic induction probe (Fe) measures the thickness of non-magnetic coating on magnetic substrate.
 Substrate: iron, steel, magnetic stainless steel (not for non-magnetic stainless steel)
 Coating: zinc, copper, chrome-tin, plastic powder, paint (not for nickel)
 Eddy current probe (NFe) measures the thickness of non-conductive coating on non-magnetic metal substrate.
- Eddy current probe (NFe) measures the thickness of non-conductive coating on non-magnetic metal substrate.
 Substrate: copper, aluminum, zinc, non-magnetic stainless steel
 Coating: plastic powder, paint, anodizing



standard foils (included)

MAIN UNIT

Code		ISO-2000FN (without probes)		
Measuring range magnetic induction probe (Fe)		0~2000μm		
Measuring range	eddy current probe (NFe)	0~800μm		
Accuracy		±(1.5+2%L)μm L is measuring thickness in μm		
		0.1μm (range<100μm)		
Resolution		1μm (range 100~1000μm)		
		10μm (range≥1000μm)		
Donostok ilito		1μm (range 0~1000μm)		
Repeatability		10μm (range≥1000μm)		
Measuring mode		continuous or single		
Calibration mode four points calibration		four points calibration		
Minimum substrate thickness		magnetic induction probe (Fe): 0.2mm, eddy current probe (NFe): 0.05mm		
Minimum measuring area		5x5mm, calibration should be made on workpieces without coating		
Power supply		2×1.5V AA batteries		
Dimension of main unit		122×65×22mm		
Weight of main unit		150g		

STANDARD DELIVERY

Main unit	1 pc
Zero calibration block for Fe probe	1 pc
Zero calibration block for NFe probe	1 pc
Standard foil	7 pcs
Battery (AA)	2 pcs

PROBE (OPTIONAL)

Magnetic induction probe (Fe)	ISO-2000FN-FE
Eddy current probe (NFe)	ISO-2000FN-NFE

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COATING THICKNESS GAGE CODE 9501-1200

FOR MAGNETIC AND NON-MAGNETIC SUBSTRATES

DATA OUTPUT



eddy current probe NFE (optional) with zero calibration block



magnetic induction probe FE90 for bores and grooves (optional)



magnetic induction probe FE10 for large range (optional)



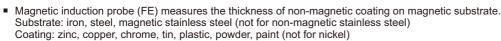
calibration foils (included)

for FE (included)

data transmission cable (optional)









■ Eddy current probe (NFE) measures the thickness of non-conductive coating on non-magnetic substrate. Substrate: copper, aluminum, zinc, non-magnetic stainless steel Coating: plastic, powder, paint, anodizing

■ Tolerance measurement

Automatic power off

SPECIFICATION

Probe type	FE (included) magnetic induction probe	NFE (optional) eddy current probe	FE90 (optional) magnetic induction probe for bores and grooves	Fe10 (optional) magnetic induction probe for large range		
Measuring range	0~1250μm	0~1250μm	0~1250μm	500~10000µm		
Accuracy	±(3%L+1)µm ±(3%L+10)µm	(range≤1250μm) (range>1250μm) L is measuring thickness in μm				
Resolution	0.1µm (range<10)0μm)				
Resolution	1μm (range≥100μm)					
Measuring mode	continuous and single					
Minimum substrate thickness	0.5mm 0.3mm 0.5mm 2mn		2mm			
Minimum measuring area	Ø7mm	Ø5mm	Ø7mm	Ø40mm		
Minimum curvature radius of convex workpiece	1.5mm	3mm	_	10mm		
Memory	500					
Output	USB					
Power supply	2×1.5V AA batteries					
Dimension	128×68×32mm					
Weight	340g					

STANDARD DELIVERY

Main unit	1 pc
Magnetic induction probe (FE)	1 pc
Zero calibration block for FE probe	1 pc
Calibration foils (50µm, 100µm, 250µm, 500µm, 1000µm)	1 set
1.5V AA battery	2 pcs
Software and USB cable	1 pc

OPTIONAL ACCESSORY

Data transmission cable	9501-1200-SPC
Eddy current probe (NFE) with zero calibration block	9501-1200-NFE
Magnetic induction probe (FE90) for bores and grooves	9501-1200-FE90
Magnetic induction probe (FE10) for large range	9501-1200-FE10

DATA OUTPUT

WITH A AND B SCAN

PENETRATE NON-METALLIC COATING AND MEASURE THE THICKNESS OF METAL SUBSTRATES

ULTRASONIC THICKNESS GAGE CODE ISU-720D

- Two measuring modes, Echo-Echo (E-E) and Transmit-Echo (T-E):
 - E-E is applicable for non-metallic coating (such as paint, plastic resin, etc.) on metal substrates, can penetrate coating and measure the thickness of substrates
 - T-E is to measure the thickness of material without coating, such as metal, plastic, glass, nylon, resin, ceramics, ice, etc.
- A scan, through the waveform, judges whether there are impurities, pores, cracks and so on inside, in order to avoid wrong measurement
- B scan, measures continuously, displays the thickness change on the screen
- Transducers can be automatically identified and zeroed
- Memory 10000 measurement values
- Data can be input to Excel and Word as keyboard signal
- Automatic or manual measurement
- When transducers are removed from workpieces, the measurement data are held on screen for easy viewing
- Set upper and lower limits for alarm when out-of-tolerance
- Automatic power off

SPECIFICATION (ON STEEL)

SI EGII IGATIGIT (GIT GTEEL)				
Measuring range	T-E mode: substrate thickness 1.5~200mm			
measuring range	E-E mode: substrate thickness 3~25mm			
Measuring unit	mm/inch			
Resolution	0.1/0.01mm			
Accuracy	±0.04mm (H<9.9mm) ±(0.04+0.1%H)mm (H: 10~99.9mm) ±(0.3%H)mm (H>100mm) H is the thickness to be measured in mm			
Frequency	5.0MHZ			
Display	320×240, color screen display			
Velocity	1000~9999m/s			
Measuring frequency	2 times/second and 10 times/second			
Applicable temperature	-20~50°C			
Output	USB			
Power supply	2×1.5V AA batteries			
Dimension	133×75×29mm			
Weight	260g (including batteries)			

STANDARD DELIVERY

Main unit	1 pc
Bicrystal transducer ISU-T07	1 pc
Battery (AA)	2 pcs
Couplant	1 bottle
USB cable	1 pc







Echo-Echo mode (E-E)



Transmit-Echo mode (T-E)



B Scan

couplant (included)

transducer ISU-T04 (optional)



transducer ISU-T12

(optional)



transducer ISU-T06 transducer ISU-T08 (optional)



transducer ISU-T13 (optional)





transducer ISU-T25 (optional)



OPTIONAL ACCESSORY

Transducer	ISU-T04, ISU-T06, ISU-T08, ISU-T12, ISU-T13, ISU-T25	
Couplant (for ISU-T13)	ISU-HT5-COUPLANT	

SPECIFICATION OF TRANSDUCERS (ON STEEL)

SPECIFICATION OF TRANSDUCERS (ON STEEL)							
Code	Mode	Frenquency	Diameter (Ød)	Measuring range	Minimum size of pipes for measurement (diameter × wall thickness)	Applicable temperature	Application
ISU-T07 (included)	T-E E-E	5.0MHz	13.2mm	T-E mode: 1.5~200mm E-E mode: 3~25mm	T-E mode: Ø25×3mm	<60°C	general use
ISU-T04 (optional)	T-E	10.0MHz	6mm	0.7~20mm	Ø15×1mm	<60°C	for small tubes
ISU-T06 (optional)	T-E	7.5MHz	9mm	0.7~50mm	Ø15×1.2mm	<60°C	for thin workpieces
ISU-T08 (optional)	T-E	5.0MHz	11mm	0.8~300mm	Ø25×1.2mm	<60°C	general use
ISU-T12 (optional)	T-E	2.0MHz	17mm	2~400mm	Ø40×3mm	<60°C	for casting iron
ISU-T13 (optional)	T-E	5.0MHz	15mm	3~100mm	Ø25×2mm	<350°C	for high temperature
ISU-T25 (optional)	T-E	1.0MHz	26mm	3~200mm	_	<60°C	for fiberglass and organic material



ULTRASONIC THICKNESS GAGE (FOR THICK WORKPIECES MADE OF ORGANIC MATERIALS) CODE ISU-710D

SPECIFICATION (ON STEEL)

OI LOII IOATIO	N (ON STEEL)		
Measuring range		20~590mm	
Measuring u	nit	mm/inch	
Resolution		0.1/0.01mm	
Accuracy		±(0.04+0.1%H)mm (H: 10~99.9mm) ±(0.3%H)mm (H>100mm) H is the thickness to be measured in mm	
Туре		Monocrystal probe	
Transducer	Frequency	1.0MHz	
	Diameter (Ød)	26mm	
Display		320×240, color screen display	
Velocity		1000~9999m/s	
Measuring fr	equency	2 times/second and 10 times/second	
Applicable to	emperature	-20~50°C	
Output		USB	
Power supply		2×1.5V AA batteries	
Dimension		133×75×29mm	
Weight		260g (including batteries)	



Main unit	1 pc
Transducer	1 pc
Battery (AA)	2 pcs
Couplant	1 bottle
USB cable	1 pc





couplant (included)







B Scan

WITH A AND B SCAN

- For thick workpieces made of organic materials
- A scan, through the waveform, judges whether there are impurities, pores, cracks and so on inside, in order to avoid wrong measurement
- B scan, measures continuously, displays the thickness change on the screen
- Transducers can be automatically identified and zeroed
- Memory 10000 measurement values
- Data can be input to Excel and Word as keyboard signal
- Automatic or manual measurement
- When transducers are removed from workpieces, the measurement data are held on screen for easy viewing
- Set upper and lower limits for alarm when out-of-tolerance

DATA

OUTPUT

Automatic power off

ULTRASONIC THICKNESS GAGE (FOR THIN WORKPIECES) CODE ISU-700D



Measuring range		Transmit-echo (T-E) mode: 1.5~20mm		
		Echo-echo (E-E) mode: 0.2~10mm		
Measuring u	nit	mm/inch		
Resolution		0.1/0.01/0.001mm		
Accuracy		±0.04mm (H<9.99mm) ±(0.04+0.1%H)mm (H≥10mm) H is the thickness to be measured in mm		
	Туре	Monocrystal probe		
Transducer	Frequency	15.0MHz		
	Diameter (Ød)	7.5mm		
Display		320×240, color screen display		
Velocity		1000~9999m/s		
Measuring fr	equency	2 times/second and 10 times/second		
Applicable temperature		-20~50°C		
Output		USB		
Power supply		2×1.5V AA batteries		
Dimension		133×75×29mm		
Weight		260g (including batteries)		

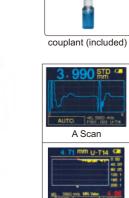
STANDARD DELIVERY

Main unit	1 pc
Transducer	1 pc
Transducer protective sleeve	1 pc
Battery (AA)	2 pcs
Couplant	1 bottle
USB cable	1 pc

transducer protection sleeve (included)







B Scan

- For thin workpieces
- A scan, through the waveform, judges whether there are impurities, pores, cracks and so on inside, in order to avoid wrong measurement
- B scan, measures continuously, displays the thickness change on the screen
- Transducers can be automatically identified and zeroed
- Memory 10000 measurement values
- Data can be input to Excel and Word as keyboard signal
- Automatic or manual measurement
- When transducers are removed from workpieces, the measurement data are held on screen for easy viewing
- Set upper and lower limits for alarm when out-of-tolerance
- Automatic power off

PENETRATE NON-METALLIC COATING AND MEASURE THE THICKNESS OF METAL SUBSTRATE

DATA OUTPUT



- Two measuring modes, Echo-Echo (E-E) and Transmit-Echo (T-E):
 - E-E is applicable for non-metallic coating (such as paint, plastic resin, etc.) on metal substrates, can penetrate coating and measure the thickness of substrates
 - T-E is to measure the thickness of material without coating, such as metal, plastic, glass, nylon, resin, ceramics, ice, etc.
- Tolerance measurement
- Average calculation of maximum 9 readings
- Data can be input to Excel and Word as keyboard signal

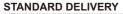
ULTRASONIC THICKNESS GAGE (THROUGH COATING) CODE ISU-300D



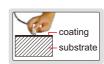


SPECIFICATION (ON STEEL)

SI LONIOATION (ON OTLLE)				
Measuring	E-E mode: coating thickness 0~1mm, substrate thickness 4~25mm			
range	T-E mode: substrate thickness 1.5~200mm			
Resolution	0.01mm (range<100mm) 0.1mm (range≥100mm)			
Repeatability	0.03mm (range<100mm) 0.1mm (range≥100mm)			
Accuracy	±0.04mm (range<10mm) ±(0.04+H/1000)mm (range 10~100mm) ±H/333mm (range≥100mm) H is the thickness to be measured in mm			
Velocity	1000~9999m/s			
Power supply	2×1.5V AAA batteries			
Dimension	116×64×27mm			
Weight	220g			



Main unit	1 pc
Transducer ISU-T07	1 pc
Battery (AAA)	2 pcs
Couplant (for ISU-T04, ISU-T06, ISU-T07, ISU-T12)	1 bottle
USB cable	1 pc



Echo-Echo mode (E-E)



Transmit-Echo mode (T-E)



couplant (included)



transducer ISU-T04 (optional)



transducer ISU-T06 (optional)



transducer ISU-T12 (optional)



transducer ISU-T13 (optional)

OPTIONAL ACCESSORY

Transducer	ISU-T04, ISU-T06, ISU-T12, ISU-T13		
Couplant (for ISU-T13)	ISU-HT5-COUPLANT		

SPECIFICATION OF TRANSDUCERS (ON STEEL)

Code	Mode	Frenquency	Diameter (Ød)	Measuring range	Minimum size of pipes for measurement (diameter × wall thickness)	Applicable temperature	Application
ISU-T07 (included)	T-E E-E	5.0MHz	13.2mm	T-E mode: 1.5~200mm E-E mode: 3~25mm	T-E mode: Ø25×3mm	<60°C	general use
ISU-T04 (optional)	T-E	10.0MHz	6mm	0.7~20mm	Ø15×1mm	<60°C	for small tubes
ISU-T06 (optional)	T-E	7.5MHz	9mm	0.7~50mm	Ø15×1.2mm	<60°C	for thin workpieces
ISU-T12 (optional)	T-E	2.0MHz	17mm	2~400mm	Ø40×3mm	<60°C	for casting iron
ISU-T13 (optional)	T-E	5.0MHz	15mm	3~100mm	Ø25×2mm	<350°C	for high temperature



ULTRASONIC THICKNESS GAGE CODE ISU-250C







- Measure the thickness from one side of objects, suitable for pipes, tanks, etc.
- Applicable material: metal, plastic, glass, nylon, resin, ceramic, ice
- Tolerance measurement
- Average calculation of 9 readings
- Data can be input to Excel and Word as keyboard signal

4.00mm block for calibration LCD with backlight USB port transducer ISU-T08 (included)





couplant (included)





transducer ISU-T04 (optional)

transducer ISU-T06 (optional)





transducer ISU-T12 (optional)

transducer ISU-T13 (optional)

SPECIFICATION (ON STEEL)

Resolution	0.01mm (range<100mm)				
Resolution	0.1mm (range≥100mm)				
Repeatability	0.03mm (range<100mm)				
Кереатарппу	0.1mm (range≥100mm)				
Accuracy	±0.04mm (range<10mm) ±(0.04+H/1000)mm (range 10~100mm) ±H/333mm (range≥100mm) H is the thickness to be measured in mm				
Velocity	1000-9999m/s				
Power supply 2×1.5V AAA batteries					
Dimension	64×116×27mm				
Weight	220g				

STANDARD DELIVERY

Main unit	1 pc
Transducer ISU-T08	1 pc
Battery (AAA)	2 pcs
Couplant (for ISU-T04, ISU-T06, ISU-T08, ISU-T12)	1 bottle
USB cable	1 pc

OPTIONAL ACCESSORY

Transducer	ISU-T04, ISU-T06, ISU-T12, ISU-T13		
Couplant (for ISU-T13)	ISU-HT5-COUPLANT		

SPECIFICATION OF TRANSDUCERS (ON STEEL)

Code	Frequency	Diameter (Ød)	Measuring range	Minimum size of pipes for measurement (diameter × wall thickness)	Applicable temperature	Application
ISU-T08 (included)	5.0MHz	11mm	0.8~300mm	Ø25×1.2mm	<60°C	general use
ISU-T04 (optional)	10.0MHz	6mm	0.7~20mm	Ø15×1mm	<60°C	for small tubes
ISU-T06 (optional)	7.5MHz	9mm	0.7~50mm	Ø15×1.2mm	<60°C	for thin workpieces
ISU-T12 (optional)	2.0MHz	17mm	2~400mm	Ø40×3mm	<60°C	for casting iron
ISU-T13 (optional)	5.0MHz	15mm	3~100mm	Ø25×2mm	<350°C	for high temperature

ULTRASONIC THICKNESS GAGE (BASIC TYPE) CODE ISU-100D

- Measure the thickness from one side of objects, suitable for pipes, tanks, etc.
- Applicable material: metal, plastic, glass, nylon, resin, ceramic, ice

SPECIFICATION (ON STEEL)

SPECIFICATION	(ON STEEL)			
Measuring range		0.8~300mm		
Deceletion		0.01mm (range<100mm)		
Resolution		0.1mm (range≥100mm)		
Accuracy		±0.04mm (range<10mm) ±(0.04+H/1000)mm (range 10~100mm) ±H/333mm (range≥100mm) H is the thickness to be measured in mm		
Transducer	frequency	5MHz		
Hallsuucei	diameter (Ød)	10.8mm		
Minimum size for measureme		20×1.2mm (diameter × wall thickness)		
Applicable tem	perature	<60°C		
Velocity		1000-9999m/s		
Power supply		2×AAA batteries		
Dimension		114×64×28mm		
Weight		200g		



1 bottle

2 pcs

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Couplant

Battery (AAA)