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PENETRATE COATING AND MEASURE THE THICKNESS OF SUBSTRATE

BLUETOOTH

ULTRASONIC THICKNESS GAUGE (ADVANCED TYPE) CODE ISU-800D



REAL-TIME TEMPERATURE COMPENSATION

DATA OUTPUT

- Real-time temperature compensation eliminates the error caused by temperature variation
- Support both single element transducers and dual element
- Measure the thickness of substrate through coating
- Measuring mode: standard mode (dual element transducer P-E mode, single element transducer: I-E mode), penetrate coating mode (dual element transducer: I-E mode, single element transducer: E-E mode or auto mode)
- Measure method: single point, scanning, deviation
- Set upper and lower limits for alarm when out-of-tolerance
- Single point and 2 points calibration
- Keyboard lock function avoids parameter setting change caused by unintended press during measurement
- Memory 1000 measurement values

SPECIFICATION

OPTIONAL ACCESSORY

Couplant (for ISU-H3M-P12)

Thermal printer (with cable)

Transducer

Data can be transmitted to PC by Bluetooth connection or Mini-USB cable

Measuring range	refer to the specification of transducers
Resolution	0.01mm/0.001mm
Accuracy	refer to the specification of transducers
Data output	bluetooth and USB
Velocity	1~19999m/s
Power supply	3.7V rechargeable lithium battery
Dimension	157×78×37mm
Weight	260g

refer to the specification of transducers

ISU-HT5-COUPLANT

ISU-800D-PRINTER



STANDARD DELIVERY

STANDARD DELIVERT					
Main unit	1 pc				
Transducer ISU-S15-P06	1 pc				
Power adaptor	1 pc				
USB cable	1 pc				
Couplant	1 bottle				

transducer ISU-S15-P06 (included)



transducer ISU-S2M-P14 (optional)



transducer ISU-G5M-P10 (optional)





transducer ISU-G5M-P08 (optional)

transducer ISU-G7M-P06 (optional)





transducer ISU-G2M-P12









delay block ISU-S15-P06-CB (optional)



delay block ISU-S15-P06-CB1 (optional)



				,				
Code	Туре	Freq	Diameter (Ød)	Measuring range	Min. size of pipes (diameter x wall thickness)	Accuracy	Applicable temperature	Application
ISU-S15-P06 (included)	single element	15MHz	8mm	I-E: 0.9~28mm E-E: 0.15~14mm	Ø10x1.5mm Ø15x0.35mm			high precision or thin workpieces
ISU-S15-P06-CB (optional) ***	-	-	5mm	I-E: 0.9~10mm E-E: 0.15~5mm	Ø10x1.2mm Ø15x0.35mm	±0.02mm/0.3%H* (take the larger one)	-10~60°C	high precision or irregular surface
ISU-S15-P06-CB1 (optional) ***	-	-	8mm	I-E: 0.9~38mm E-E: 0.3~19mm	-			high precision or thick workpieces
ISU-S2M-P14 (optional)	single element	2MHz	19mm	I-E: 30~2000mm E-E: 30~1000mm	-	±0.5%H*	-10~310°C	ultra-thick workpieces
ISU-G5M-P10 (optional)	dual element	5MHz	13mm	0.8~300mm	Ø25x3mm	±0.04mm		normal workpieces
ISU-G5M-P08 (optional)	dual element	5MHz	11mm	0.8~225mm	Ø20x1.2mm (range: <10mm) ±H/333mm*		40.0000	curved surface and normal workpieces
ISU-G7M-P06 (optional)	dual element	7.5MHz	9mm	0.8~50mm	Ø15x1.2mm	(range: ≥10mm)	-10~60°C	curved surface and small workpieces
ISU-G2M-P12 (optional)	dual element	2MHz	17mm	3~700mm	Ø30x4mm	±0.05mm/0.5%H* (take the larger one)		castings and thick workpieces
ISU-H3M-P12 (optional)	dual element	3MHz	15mm	2~200mm	Ø25x3mm	±0.05mm/0.5%H* (take the larger one)	-10~310°C	workpieces with high temperature

^{*}H is the measured thickness in mm

^{***} Delay blockers, suitable for transducer ISU-S15-P06

ULTRASONIC THICKNESS GAUGE CODE ISU-810D

PENETRATE COATING AND MEASURE THE THICKNESS OF SUBSTRATES

WITH A AND B SCAN





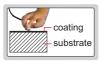


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- Measure the thickness of substrate through coating
- Measuring mode: standard mode (dual element transducer: P-E), penetrate coating mode (dual element transducer: E-E)
- Dispiay mode: real-time color A-scan waveform mode, real-time color B-scan waveform mode, thickness value mode, Min/Max capture mode, difference or reduction rate mode
- Can measure gray cast iron, ductile iron, PE, PVC pipe, fiberglass, 3PE anticorrosive layer pipes, metal pipes, pressure vessels, shaped parts, wall thickness of small pipes etc.
- Set the upper and lower limits, and the reading color will change when the limit is exceeded
- One-point calibration and two-point calibration
- Can compensate the non-linearity of the twin-crystal probe by automatic V path correction
- Can store 100000 thickness values and 1000 waveforms
- USB 2.0 port connected to computer for statistics
- Languages: Chinese, English, German, French, Japanese
- Power off: automatic/manual







Echo-Echo mode (E-E)

Transmit-Echo mode (T-E)

SPECIFICATION

Measuring range	refer to the specification of transducers		
Resolution	0.1/0.01mm		
Accuracy	±0.05mm (H<10mm) ±(0.05%H+0.01)mm (H≥100mm) H is the thickness to be measured in mm		
Display	320×240, color screen display		
Measuring frequency	4Hz, 8Hz, 16Hz		
Velocity	500~9999m/s		
Applicable temperature	-20~50°C		
Output	USB		
Measuring unit	mm/inch		
Power supply	2×1.5V AA batteries		
Dimension	153×76×37mm		
Weight	280g (including batteries)		

STANDARD DELIVERY

STANDARD BELIVER					
Main unit	1 pc				
Transducer ISU-810D-TC510	1 pc				
Battery (AA)	2 pcs				
Couplant	1 bottle				
USB cable	1 pc				





transducer ISU-810D-PT08 (optional)



transducer ISU-810D-P04 (optional)



transducer
ISU-810D-ZT12
(optional)



transducer ISU-810D-P06 (optional)



ISU-810D-GT12 (optional)



OPTIONAL ACCESSORY

Transducer	refer to the specification of transducers
Couplant (for ISU-810D-GT12)	ISU-HT5-COUPLANT

SPECIFICATION OF TRANSDUCERS

or London or Howard Decline							
Code	Frequency	Diameter (Ød)	Measuring range	Applicable temperature	Application		
ISU-810D-TC510 (included)	5MHz	13.5mm	1.2~400mm	-10~70°C	normal workpieces		
ISU-810D-TC550 (optional)	5MHz	13.5mm	1~200mm	-10~70°C	fiberglass and organic material		
ISU-810D-PT04 (optional)	10MHz	7mm	0.7~12mm	-10~70°C	small diameter workpieces		
ISU-810D-PT06 (optional)	7.5MHz	8.7mm	0.8~30mm	-10~70°C	curved surface and small workpieces		
ISU-810D-PT08 (optional)	5MHz	11mm	0.8~100mm	-10~60°C	normal workpieces		
ISU-810D-ZT12 (optional)	2MHz	17mm	4~508mm	-10~70°C	cast iron (coarse grain) and thick workpieces		
ISU-810D-GT12 (optional)	3MHz	15mm	2~80mm	-20~480°C	workpieces with high temperature		



ULTRASONIC THICKNESS GAUGE

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





WITH A AND B SCAN

- 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

USB port LCD with backlight 4.00mm block for calibration transducer ISU-T07 (included)



CODE ISU-720D



SPECIFICATION (ON STEEL)

Measuring range	refer to specification of transducers		
Resolution	0.1/0.01mm		
Accuracy	±0.04mm (H<10mm) ±(0.04+H/1000)mm (10≤H<100mm) ±H/333mm (H≥100mm) H is the thickness to be measured in mm		
Frequency	refer to specification of transducers		
Display	320×240, color screen display		
Velocity	1000~9999m/s		
Measuring frequency	2 times/second and 10 times/second		
Operation temperature of main unit	-20~50°C		
Output	USB		
Measuring unit	mm/inch		
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



substrate

Echo-Echo mode (E-E)

Transmit-Echo mode (T-E)







transducer ISU-T06

transducer ISU-T08 (optional)





transducer ISU-T12 (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

<u> </u>	TON OF TRANSPORTING (ON OTELL)						
Code	Mode	Frequency	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	-20~60°C	general use
ISU-T04 (optional)	T-E	10.0MHz	6mm	0.7~20mm	Ø15×1mm	-20~60°C	for small tubes
ISU-T06 (optional)	T-E	7.5MHz	9mm	0.7~50mm	Ø15×1.2mm	-20~60°C	for thin workpieces
ISU-T08 (optional)	T-E	5.0MHz	11mm	0.8~300mm	Ø25×1.2mm	-20~60°C	general use
ISU-T12 (optional)	T-E	2.0MHz	17mm	2~400mm	Ø40×3mm	-20~60°C	for casting iron
ISU-T13 (optional)	T-E	5.0MHz	15mm	3~100mm	Ø25×2mm	0~350°C	for high temperature
ISU-T25 (optional)	T-E	1.0MHz	26mm	3~200mm	-	-20~60°C	for fiberglass and organic material

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









- 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
- Automatic power off

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for calibration



SPECIFICATION (ON STEEL)

Measuring range	>	20~590mm			
Resolution		0.1/0.01mm			
Accuracy		±(0.04+H/1000)mm (H<100mm) ±H/333mm (H≥100mm) H is the thickness to be measured in mm			
	type	single element transducer			
Transducer	frequency	1.0MHz			
	diameter (Ød)	26mm			
Display		320×240, color screen display			
Velocity		1000~9999m/s			
Measuring frequency		2 times/second and 10 times/second			
Operation temperature		main unit: -20~50°C transducer: -20~60°C			
Output		USB			
Measuring unit		mm/inch			
Power supply		2×1.5V AA batteries			
Dimension		133×75×29mm			
Weight		260g (including batteries)			

STANDARD DELIVERY

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







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





- 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





SPECIFICATION (ON STEEL)

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Measuring range		Transmit-echo (T-E) mode: 1.5~20mm	
		Echo-echo (E-E) mode: 0.2~10mm	
Resolution		0.1/0.01/0.001mm	
Accuracy		±0.04mm (H<10mm) ±(0.04+H/1000)mm (H≥10mm) H is the thickness to be measured in mm	
	type	single element transducer	
Transducer	frequency	15.0MHz	
	diameter (Ød)	7.5mm	
Display		320×240, color screen display	
Velocity		1000~9999m/s	
Measuring freq	uency	2 times/second and 10 times/second	
Operation temperature		main unit: -20~50°C transducer: -20~60°C	
Output		USB	
Measuring unit		mm/inch	
Power supply		2×1.5V AA batteries	
Dimension		133×75×29mm	
Weight		260g (including batteries)	

transducer protective sleeve (included)



STANDARD DELIVERY

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

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

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



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- 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



SPECIFICATION (ON STEEL)

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Measuring range	refer to specification of transducers	
Resolution	0.1/0.01mm	
Accuracy	±0.04mm (H<10mm) ±(0.04+H/1000)mm (10≤H<100mm) ±H/333mm (H≥100mm) H is the thickness to be measured in mm	
Velocity	1000~9999m/s	
Operation temperature of main unit	-20~50°C	
Output	USB	
Measuring unit	mm/inch	
Power supply	2×1.5V AAA batteries	
Dimension	116×64×27mm	
Weight	220g	



Transmit-Echo mode (T-E)



transducer ISU-T04



transducer ISU-T06 (optional)



Echo-Echo mode (E-E)



transducer ISU-T12 (optional)



transducer ISU-T13 (optional)

STANDARD DELIVERY

017.1107.110 022.172.11	
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
LISB cable	1 nc

OPTIONAL ACCESSORY

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

Code	Mode	Frequency	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	-20~60°C	general use
ISU-T04 (optional)	T-E	10.0MHz	6mm	0.7~20mm	Ø15×1mm	-20~60°C	for small tubes
ISU-T06 (optional)	T-E	7.5MHz	9mm	0.7~50mm	Ø15×1.2mm	-20~60°C	for thin workpieces
ISU-T12 (optional)	T-E	2.0MHz	17mm	2~400mm	Ø40×3mm	-20~60°C	for casting iron
ISU-T13 (optional)	T-E	5.0MHz	15mm	3~100mm	Ø25×2mm	0~350°C	for high temperature







ULTRASONIC THICKNESS GAUGE 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



SPECIFICATION (ON STEEL)

Measuring range	refer to specification of transducers	
Resolution	0.1/0.01mm	
Accuracy	±0.04mm (H<10mm) ±(0.04+H/1000)mm (10≤H<100mm) ±H/333mm (H≥100mm) H is the thickness to be measured in mm	
Velocity	1000-9999m/s	
Operation temperature of main unit	-20~50°C	
Output	USB	
Measuring unit	mm/inch	
Power supply	2×1.5V AAA batteries	
Dimension 64×116×27mm		
Weight	220g	



,			
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	





transducer ISU-T06 (optional)



transducer ISU-T13 (optional)



transducer ISU-T04 (optional)



(optional)

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	-20~60°C	general use
ISU-T04 (optional)	10.0MHz	6mm	0.7~20mm	Ø15×1mm	-20~60°C	for small tubes
ISU-T06 (optional)	7.5MHz	9mm	0.7~50mm	Ø15×1.2mm	-20~60°C	for thin workpieces
ISU-T12 (optional)	2.0MHz	17mm	2~400mm	Ø40×3mm	-20~60°C	for casting iron
ISU-T13 (optional)	5.0MHz	15mm	3~100mm	Ø25×2mm	0~350°C	for high temperature



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



ATTENTION: NOT SUITABLE FOR CASTINGS AND ALUMINUM WORKPIECES





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- Measure the thickness from one side of objects, suitable for pipes, tanks, etc.
- Applicable material: steel, stainless steel, glass, copper, brass, polystyrene, titanium, etc.

SPECIFICATION (ON STEEL)

SPECIFICATION (ON STEEL)			
Measuring range		0.8~300mm	
Resolution		0.1/0.01mm	
Accuracy		±0.05mm (H<10mm) ±(0.05+H/1000)mm (10≤H<100mm) ±H/333mm (H≥100mm) H is the thickness to be measured in mm	
Transducer frequency		5MHz	
Transducer	diameter (Ød)	10.8mm	
Minimum size o	f pipes	20×1.2mm (diameter×wall thickness)	
Velocity		1000-9999m/s	
Operation temperature		main unit: -20~50°C transducer: -20~60°C	
Measuring unit		mm/inch	
Power supply		2×AAA batteries	
Dimension		114×64×28mm	
Weight		200g	



STANDARD DELIVERY

OTTAIN TO DELIVER.	
Main unit	1 pc
Transducer	1 pc
Couplant	1 bottle
Battery (AAA)	2 pcs