

## BUILT-IN WIRELESS ULTRASONIC THICKNESS GAUGE (ADVANCED TYPE) CODE ISU-800DWL

- Real-time temperature compensation eliminates the error caused by temperature variation
- Support both single element transducers and dual element transducers
- 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
- Data can be transmitted to PC by wireless connection or Mini-USB cable

### SPECIFICATION

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

### OPTIONAL ACCESSORY

Transducer	refer to the specification of transducers
Couplant (for ISU-H3M-P12)	ISU-HT5-COUPANT
Thermal printer (with cable)	ISU-800D-PRINTER
Receiver	7315-2/3/6/7/8/9

### SPECIFICATION OF TRANSDUCERS (ON STEEL)

Code	Type	Freq	Diameter (Ød)	Measuring range	Min. size of pipes (diameter × wall thickness)	Accuracy	Applicable temperature	Application
ISU-S15-P06 (included)	single element	15MHz	8mm	I-E: 0.9~28mm E-E: 0.15~14mm	Ø10×1.5mm Ø15×0.35mm	±0.02mm/0.3%H* (take the larger one)	-10°C~60°C	high precision or thin workpieces
ISU-S15-P06-CB (optional)**	—	—	5mm	I-E: 0.9~10mm E-E: 0.15~5mm	Ø10×1.2mm Ø15×0.35mm			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°C~310°C	ultra-thick workpieces
ISU-G5M-P10 (optional)	dual element	5MHz	13mm	0.8~300mm	Ø25×3mm	±0.04mm (range: <10mm) ±H/333mm* (range: ≥10mm)	-10°C~60°C	normal workpieces
ISU-G5M-P08 (optional)	dual element	5MHz	11mm	0.8~225mm	Ø20×1.2mm			curved surface and normal workpieces
ISU-G7M-P06 (optional)	dual element	7.5MHz	9mm	0.8~50mm	Ø15×1.2mm			curved surface and small workpieces
ISU-G2M-P12 (optional)	dual element	2MHz	17mm	3~700mm	Ø30×4mm	±0.05mm/0.5%H*	-10°C~310°C	castings and thick workpieces
ISU-H3M-P12 (optional)	dual element	3MHz	15mm	2~200mm	Ø25×3mm	±0.05mm/0.5%H*		workpieces with high temperature

\* H is the measured thickness in mm

\*\* Delay blocks, suitable for transducer ISU-S15-P06



PENETRATE COATING AND MEASURE THE THICKNESS OF SUBSTRATE

BUILT-IN WIRELESS

REAL-TIME TEMPERATURE COMPENSATION

DATA OUTPUT

transducer  
ISU-S15-P06  
(included)



receiver (optional)

transducer  
ISU-S2M-P14  
(optional)



transducer  
ISU-G5M-P10  
(optional)



transducer  
ISU-G5M-P08  
(optional)



transducer  
ISU-G7M-P06  
(optional)



transducer  
ISU-G2M-P12  
(optional)



transducer  
ISU-H3M-P12  
(optional)



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



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

