



## HIGH PRECISION DIGITAL THICKNESS GAUGES

ATTENTION: RECHARGEABLE BATTERY, FOR 12 HOURS CONTINUOUS WORKING

DATA OUTPUT

MEASURING TIPS AND ANVILS CAN BE CUSTOM-MADE

ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF



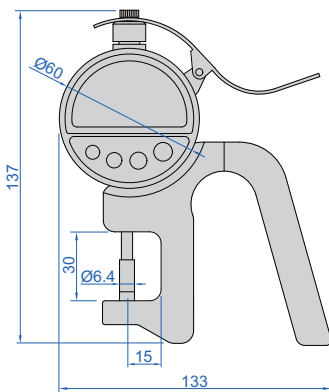
2879-10



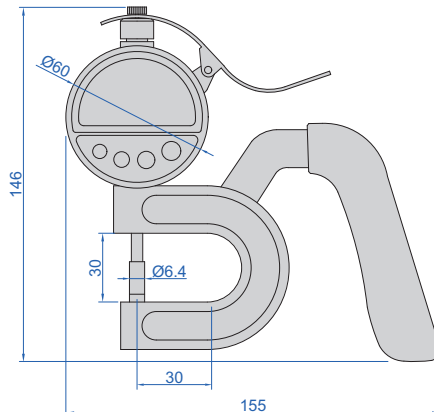
2879-30



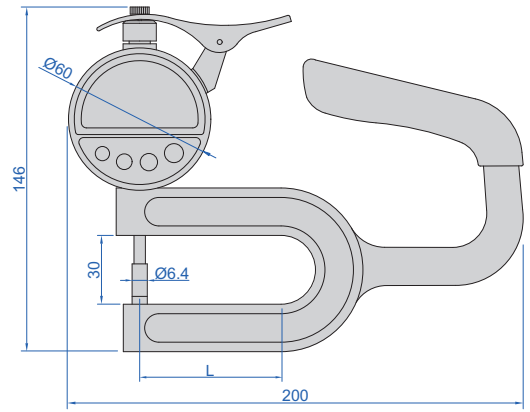
2879-60



2879-10  
2879-101



2879-30



2879-60  
2879-100

Unit: mm

- Absolute encoder, the original data remains after power off
- Button function: on/off, zero, tolerance, absolute/incremental measurement, max./min./TIR, data preset, mm/inch, data output, data hold
- Reading in digital and analog
- Power: rechargeable battery, for 12 hours continuous working
- Data output
- Supplied with data output cable (keyboard format)

Code	Range	Resolution	Accuracy	Repeatability	Measuring force	L
2879-10	0-10mm/0-0.4"	0.001mm/0.00005"	±0.002mm	0.001mm	0.5-1N	—
2879-101	0-10mm/0-0.4"	0.0005mm/0.00002"	±0.0015mm	0.0005mm	0.5-1N	—
2879-30	0-10mm/0-0.4"	0.001mm/0.00005"	±0.002mm	0.001mm	0.5-1N	—
2879-60	0-10mm/0-0.4"	0.001mm/0.00005"	±0.003mm	0.001mm	0.5-1N	60mm
2879-100	0-10mm/0-0.4"	0.001mm/0.00005"	±0.004mm	0.001mm	0.5-1N	100mm

## SMART DIGITAL THICKNESS GAUGES



2850-10

- Linear ball bearings for ten million times use
- Absolute encoder, the original data remains after power off
- Adjustable resolution: 0.0005mm/0.00002"  
0.001mm/0.00005"  
0.01mm/0.0005"
- Ceramic spindle tip and anvil
- Reading in digital and analog
- Data output
- Automatic measurement of the min. value, and the data can be transmitted automatically after each measurement
- Button function: data output, tolerance, data preset, data hold, measuring direction change, power off time, on/off, mm/inch, adjust resolution
- Power: rechargeable battery, for 24 hours continuous working

### With data interface

Optional accessory:  
wireless transmitter code **7315-60** (receiver is needed) page 7  
data output cable (keyboard format) code **7302-60** page 21

Code	Range	Accuracy
2850-10	10mm/0.4"	±3µm



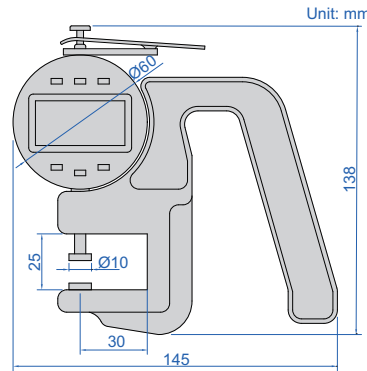
AUTOMATIC MEASUREMENT OF THE MIN. VALUE, AND THE DATA CAN BE TRANSMITTED AUTOMATICALLY AFTER EACH MEASUREMENT

DATA OUTPUT

LINEAR BALL BEARINGS FOR TEN MILLION TIMES USE

ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

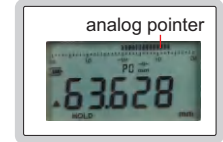
ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING



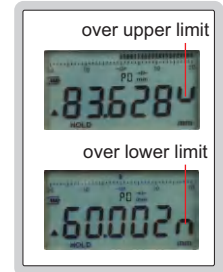
wireless receiver  
2134-R1, 2134-R2 (optional)



analog pointer



alarm when over tolerance



### Built-in wireless

Optional accessory:  
wireless receiver (keyboard format, connect up to 15 digital indicators), code **2134-R1**  
wireless receiver (serial port format, connect up to 15 digital indicators), code **2134-R2**

Code	Range	Accuracy
2850-10WL	10mm/0.4"	±3µm

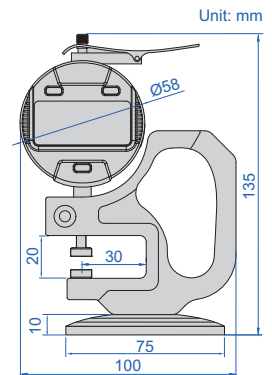
## DIGITAL THICKNESS GAUGES (WITH BASE)

- Button function: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory:  
wireless transmitter code **7315-50M** (receiver is needed) page 6,  
bluetooth transmitter code **7214-50M** page 12,  
data output cable code **7302-50M** page 21

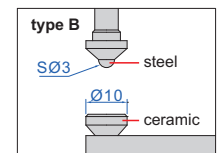
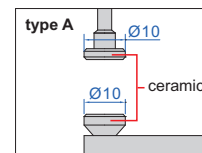


2673-10

DATA OUTPUT



Code	Range	Resolution	Accuracy	Type
2673-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm	A
2673-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm	A
2673-10B	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm	B
2673-101B	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm	B

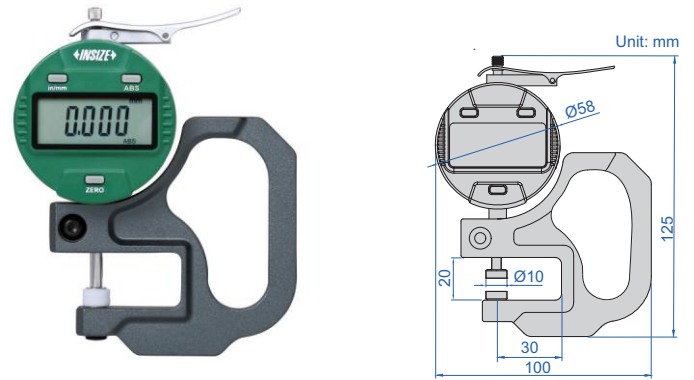


POPULAR MODEL

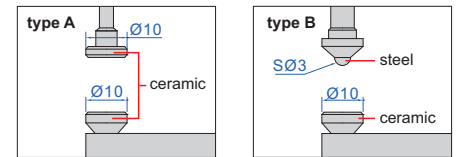
DATA OUTPUT

## DIGITAL THICKNESS GAUGES

- Button function: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory:  
wireless transmitter code **7315-50M** (receiver is needed) page 6,  
bluetooth transmitter code **7214-50M** page 12,  
data output cable code **7302-50M** page 21

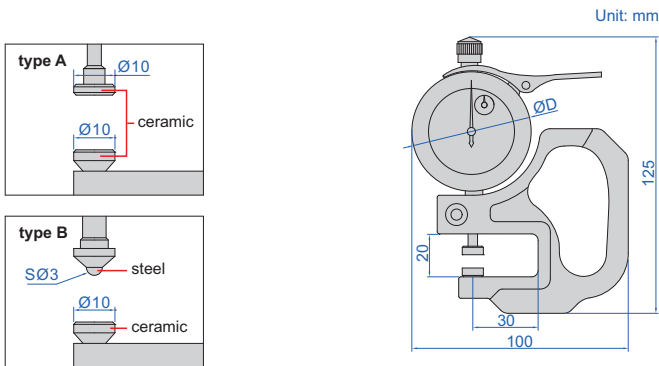


2871-101



Code	Range	Resolution	Accuracy	Type
2871-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm	A
2871-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm	A
2871-10B	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm	B
2871-101B	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm	B

## THICKNESS GAUGES



2364-10

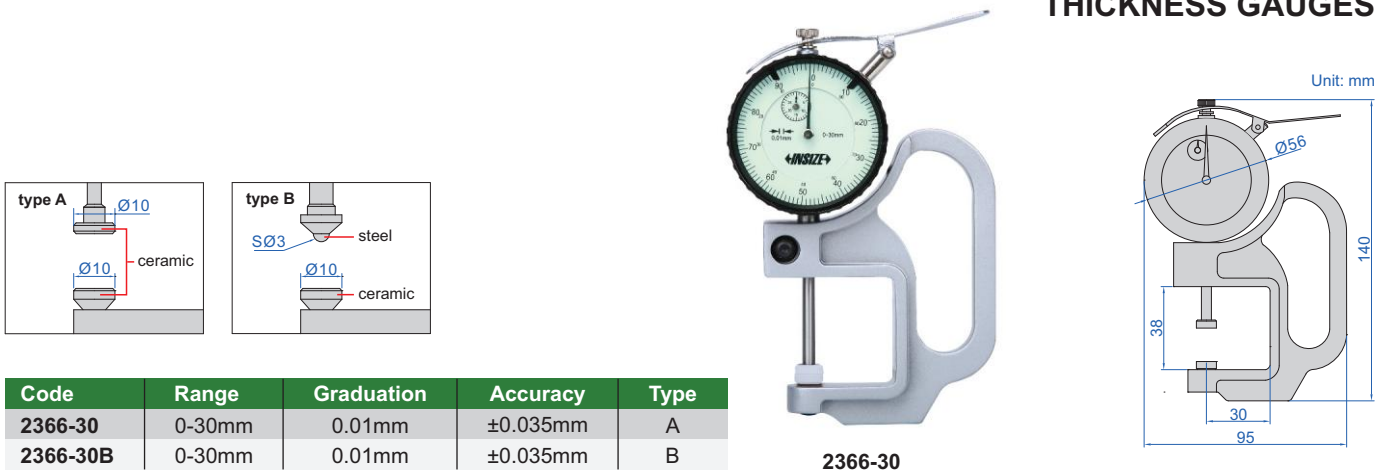


2364-1

Code	Range	Graduation	Accuracy	Type	ØD
2364-10	0-10mm	0.01mm	±0.02mm	A	58mm
2364-10B	0-10mm	0.01mm	±0.02mm	B	58mm
2364-1	0-1mm	0.001mm	±0.005mm	A	56mm

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## THICKNESS GAUGES



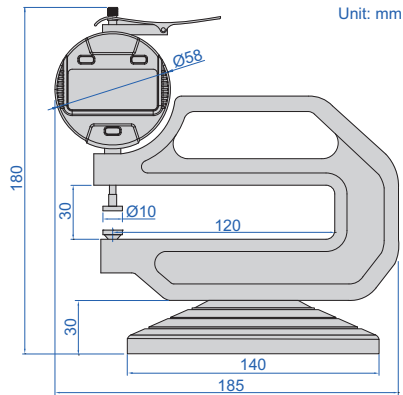
2366-30

Code	Range	Graduation	Accuracy	Type
2366-30	0-30mm	0.01mm	±0.035mm	A
2366-30B	0-30mm	0.01mm	±0.035mm	B

## DIGITAL THICKNESS GAUGES (WITH BASE)

DATA  
OUTPUT

measuring tips  
and anvils can be  
custom-made



- Ceramic spindle tip and anvil
- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory:  
wireless transmitter code **7315-50M** (receiver is needed) page 6,  
bluetooth transmitter code **7214-50M** page 12,  
data output cable code **7302-50M** page 21



2674-10

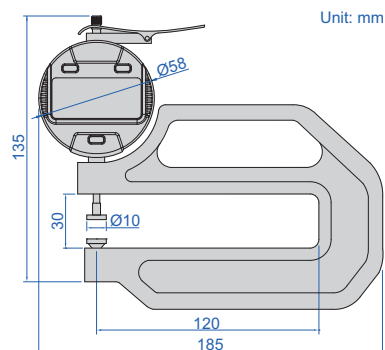
Code	Range	Resolution	Accuracy
2674-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2674-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.01mm

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## DIGITAL THICKNESS GAUGES

DATA  
OUTPUT

measuring tips  
and anvils can be  
custom-made



- Ceramic spindle tip and anvil
- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory:  
wireless transmitter code **7315-50M** (receiver is needed) page 6,  
bluetooth transmitter code **7214-50M** page 12,  
data output cable code **7302-50M** page 21



2872-10

Code	Range	Resolution	Accuracy
2872-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2872-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.01mm

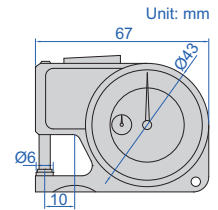
## THICKNESS GAUGE

- Stainless steel spindle tip and anvil

Code	Range	Graduation	Accuracy
2363-10	0-10mm	0.01mm	±0.03mm



2363-10



## DIGITAL ROLLER THICKNESS GAUGES

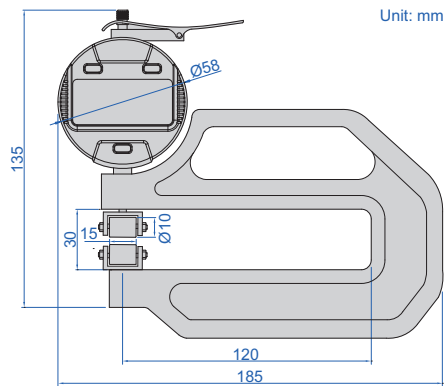
DATA OUTPUT



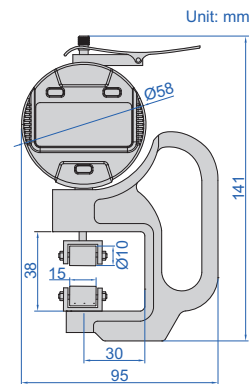
2877-4



2877-10



2877-4/2877-41



2877-10/2877-101

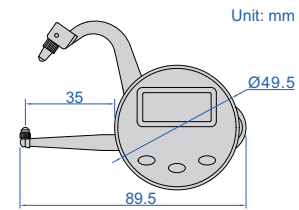
- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory: wireless transmitter code **7315-50M** (receiver is needed) page 6, bluetooth transmitter code **7214-50M** page 12, data output cable code **7302-50M** page 21

Code	Range	Resolution	Accuracy
2877-4	0-3.5mm/0-0.14"	0.01mm/0.0005"	±0.02mm
2877-41	0-3.5mm/0-0.14"	0.001mm/0.00005"	±0.01mm
2877-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2877-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.01mm

## DIGITAL THICKNESS GAUGE

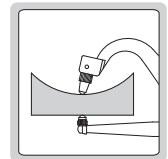


2710-25



- Resolution: 0.01mm, 0.001", 1/64"
- Buttons: on/off, zero, unit (mm/in/fraction), data hold
- Battery CR2032, automatic power off

Code	Range	Accuracy	Repeatability
2710-25	0-25.4mm/0-1"	0.05mm	0.02mm



## DIGITAL GEOMEMBRANE THICKNESS GAUGE

DATA OUTPUT

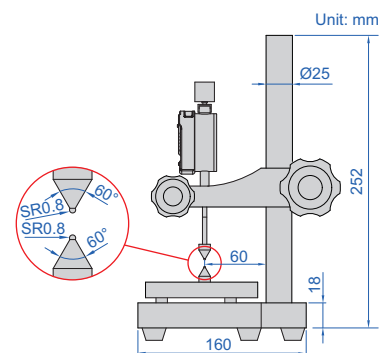
11



2259-10



- Measure thickness of geomembranes
- Button function: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- CR2032 battery, automatic power off (time is adjustable)
- Supplied with dust cover
- Optional accessory:
  - wireless transmitter code **7315-50M** (receiver is needed) page 6,
  - bluetooth transmitter code **7214-50M** page 12,
  - data output cable code **7302-40M** page 21



Code	Range	Resolution	Accuracy	Pressure
2259-10	12.7mm/0.5"	0.001mm/0.00005"	5µm	0.56±0.05N

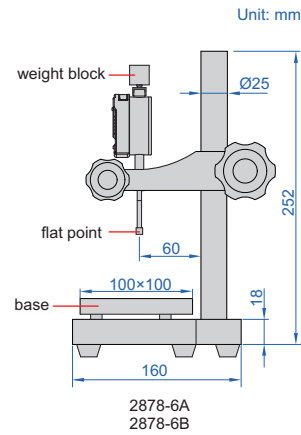
DATA  
OUTPUT



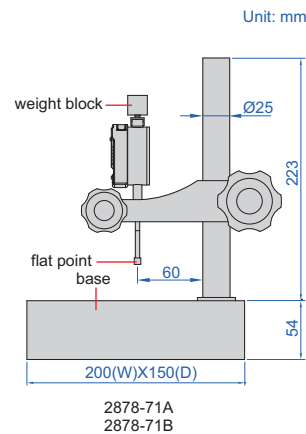
## DIGITAL RUBBER THICKNESS GAUGES



2878-6B



2878-71B



- Measure thickness of vulcanized rubber and plastic products
- Button function: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- CR2032 battery, automatic power off (time is adjustable)
- Supplied with dust cover
- Optional accessory:
  - wireless transmitter code **7315-50M** (receiver is needed) page 6,
  - bluetooth transmitter code **7214-50M** page 12,
  - data output cable code **7302-40M** page 21,
  - flat points, weight blocks

Code	Range	Resolution	Accuracy	Flat point diameter	Pressure	Base
2878-6A	12.7mm/0.5"	0.01mm/0.0005"	20µm	6mm	22kPa±5kPa	ceramic, plain, flatness 1.5µm
2878-6B	12.7mm/0.5"	0.001mm/0.00005"	5µm	6mm	22kPa±5kPa	ceramic, plain, flatness 1.5µm
2878-71A	12.7mm/0.5"	0.01mm/0.0005"	20µm	6mm	22kPa±5kPa	granite, plain, flatness 2.5µm
2878-71B	12.7mm/0.5"	0.001mm/0.00005"	5µm	6mm	22kPa±5kPa	granite, plain, flatness 2.5µm

### Flat points and weight blocks (optional)

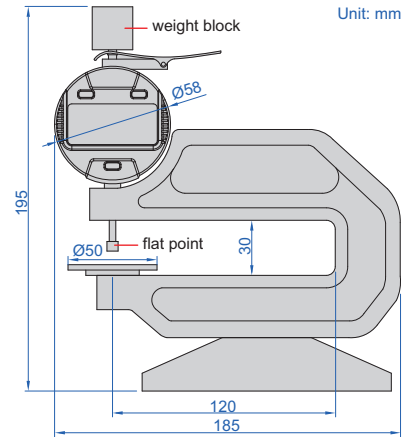
Flat point	Flat point code	Pressure				
		10kPa±2kPa weight block code	22kPa±5kPa weight block code	20kPa±3kPa weight block code	70kPa±5kPa weight block code	1.6kPa±0.1kPa weight block code
Ø4mm	2878-P4	—	2878-W4B	—	—	—
Ø5mm	2878-P5	2878-W5A	2878-W5B	2878-W5C	2878-W5D	—
Ø6mm	2878-P6	2878-W6A	2878-W6B	—	—	—
Ø8mm	2878-P8	2878-W8A	2878-W8B	—	—	—
Ø10mm	2878-P10	2878-W10A	2878-W10B	2878-W10C	—	—
Ø25mm	2878-P25	—	—	—	—	2878-W25E
1×4mm (rectangle)	2878-P14	—	—	—	2878-W14D	—

## DIGITAL RUBBER THICKNESS GAUGES

DATA  
OUTPUT



2263-6B



11

- Measure thickness of vulcanized rubber and plastic products
- Button function: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory:
  - wireless transmitter code **7315-50M** (receiver is needed) page 6,
  - bluetooth transmitter code **7214-50M** page 12,
  - data output cable code **7302-50M** page 21,
  - flat points, weight blocks

Code	Range	Resolution	Accuracy	Flat point diameter	Pressure
2263-6A	0-10mm/0-0.4"	0.01mm/0.0005"	20µm	6mm	22kPa±5kPa
2263-6B	0-10mm/0-0.4"	0.001mm/0.00005"	5µm	6mm	22kPa±5kPa

### Flat points and weight blocks (optional)

Flat point	Flat point code	Pressure				
		10kPa±2kPa	22kPa±5kPa	20kPa±3kPa	70kPa±5kPa	1.6kPa±0.1kPa
		weight block code	weight block code	weight block code	weight block code	weight block code
Ø4mm	2878-P4	—	2878-W4B	—	—	—
Ø5mm	2878-P5	2878-W5A	2878-W5B	2878-W5C	2878-W5D	—
Ø6mm	2878-P6	2878-W6A	2878-W6B	—	—	—
Ø8mm	2878-P8	2878-W8A	2878-W8B	—	—	—
Ø10mm	2878-P10	2878-W10A	2878-W10B	2878-W10C	—	—
Ø25mm	2878-P25	—	—	—	—	2878-W25E
1×4mm (rectangle)	2878-P14	—	—	—	2878-W14D	—



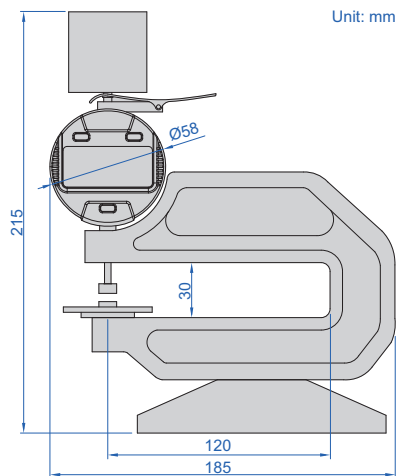
DATA  
OUTPUT



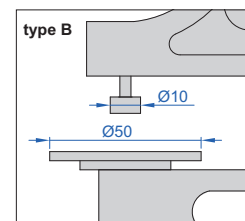
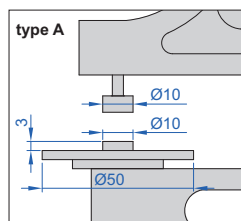
## DIGITAL LEATHER THICKNESS GAUGES



2262-10

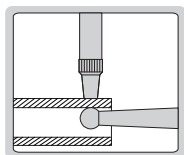


- Measure thickness of leather
- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory:  
wireless transmitter code **7315-50M** (receiver is needed) page 6,  
bluetooth transmitter code **7214-50M** page 12,  
data output cable code **7302-50M** page 21



Code	Range	Resolution	Accuracy	Type
2262-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm	A
2262-10B	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm	B

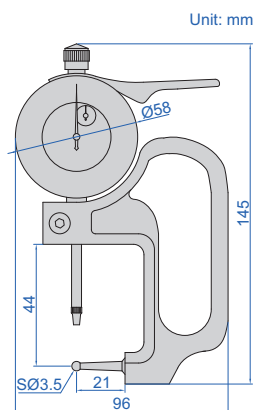
## TUBE THICKNESS GAUGE



- Measure tube wall thickness



2367-10A



Code	Range	Graduation	Accuracy
2367-10A	0-10mm	0.01mm	±0.02mm

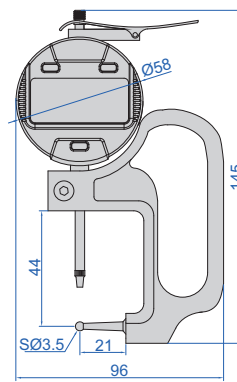
## DIGITAL TUBE THICKNESS GAUGES

DATA  
OUTPUT



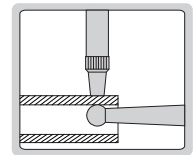
2876-10

Unit: mm



- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory:  
wireless transmitter code **7315-50M** (receiver is needed) page 6,  
bluetooth transmitter code **7214-50M** page 12,  
data output cable code **7302-50M** page 21

Code	Range	Resolution	Accuracy
2876-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2876-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm



11

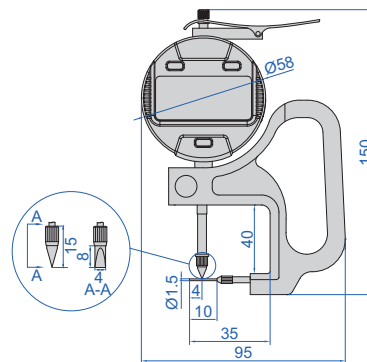
## DIGITAL TUBE THICKNESS GAUGES

DATA  
OUTPUT



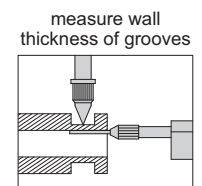
2873-10

Unit: mm



- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory:  
wireless transmitter code **7315-50M** (receiver is needed) page 6,  
bluetooth transmitter code **7214-50M** page 12,  
data output cable code **7302-50M** page 21

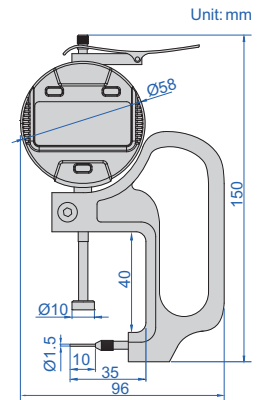
Code	Range	Resolution	Accuracy
2873-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2873-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm



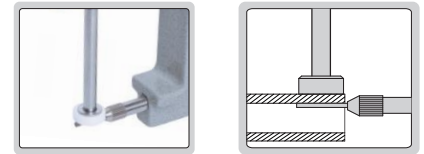
DATA  
OUTPUT

## DIGITAL TUBE THICKNESS GAUGES

- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory:  
wireless transmitter code **7315-50M** (receiver is needed) page 6,  
bluetooth transmitter code **7214-50M** page 12,  
data output cable code **7302-50M** page 21



2859-101



Code	Range	Resolution	Accuracy
2859-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2859-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm

## THREAD/LEAD SCREW PITCH DIAMETER SNAP GAUGES

application



BALL TIP DIAMETER  
CAN BE CUSTOMIZED

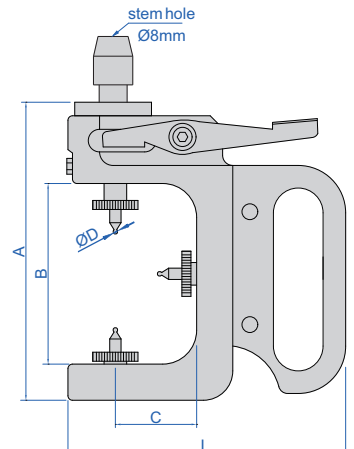


digital indicator  
is optional



- Measure the pitch diameter of lead screw and external thread
- Ball tip diameter can be customized according to workpieces.  
Diameter of trapezoidal screw or external thread ball tips:  
 $\varnothing D = 0.5 \times \text{pitch} / \cos(\text{thread angle } \alpha/2)$ .  
Ball tips diameter  $\varnothing D$  of ball screw is corresponding steel ball specification
- Probe retracting range: 3mm, measuring force: 20N
- Repeatability: 2 $\mu$ m
- Optional accessory: 0.001mm digital/dial indicators

2165-40



(mm)

Code	Range	Accuracy	A	B	C	L
2165-20	3-20mm	±5 $\mu$ m	116	60	27	113
2165-40	20-40mm	±5 $\mu$ m	132	80	37	123
2165-60	40-60mm	±5 $\mu$ m	152	138	46	100
2165-80	60-80mm	±5 $\mu$ m	172	156	59	121
2165-100	80-100mm	±5 $\mu$ m	192	170	68	140

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 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 Bluetooth connection or Mini-USB cable



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**  
(optional)



transducer  
**ISU-H3M-P12**  
(optional)



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



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



### SPECIFICATION

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

### STANDARD DELIVERY

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

### OPTIONAL ACCESSORY

Transducer	refer to the specification of transducers
Couplant (for ISU-H3M-P12)	ISU-HT5-COUPPLANT
Thermal printer (with cable)	ISU-800D-PRINTER

### SPECIFICATION OF TRANSDUCERS (ON STEEL)

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

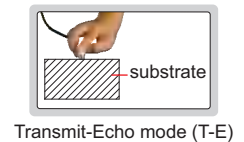
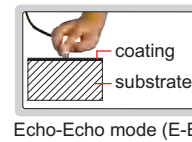
PENETRATE COATING AND MEASURE  
THE THICKNESS OF SUBSTRATES

WITH A AND B SCAN

DATA  
OUTPUT



- Measure the thickness of substrate through coating
- Measuring mode: standard mode (dual element transducer: P-E), penetrate coating mode (dual element transducer: E-E)
- Display 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

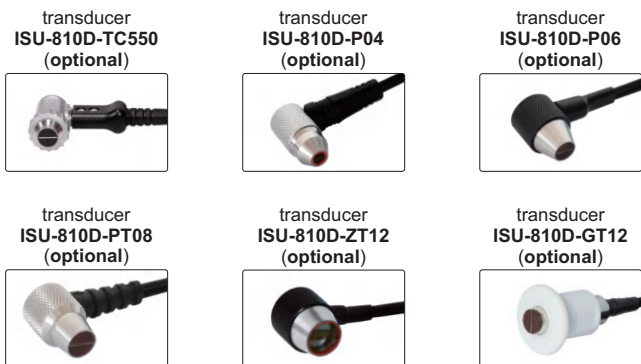


## SPECIFICATION

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

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



## OPTIONAL ACCESSORY

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

## SPECIFICATION OF TRANSDUCERS

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

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



**DATA OUTPUT**

**WITH A AND B SCAN**

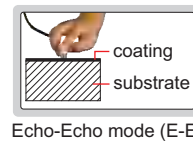
## ULTRASONIC THICKNESS GAUGE CODE ISU-720D

- 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

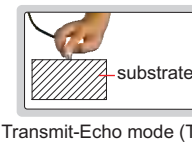


### SPECIFICATION (ON STEEL)

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)



Echo-Echo mode (E-E)



Transmit-Echo mode (T-E)

transducer **ISU-T04** (optional)



transducer **ISU-T06** (optional)



transducer **ISU-T08** (optional)



transducer **ISU-T12** (optional)



transducer **ISU-T13** (optional)



transducer **ISU-T25** (optional)



### STANDARD DELIVERY

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

### OPTIONAL ACCESSORY

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

### SPECIFICATION OF TRANSDUCERS (ON STEEL)

Code	Mode	Frequency	Diameter (Ød)	Measuring range	Minimum size of pipes for measurement (diameter × wall thickness)	Applicable temperature	Application
<b>ISU-T07 (included)</b>	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
<b>ISU-T04 (optional)</b>	T-E	10.0MHz	6mm	0.7~20mm	Ø15×1mm	-20~60°C	for small tubes
<b>ISU-T06 (optional)</b>	T-E	7.5MHz	9mm	0.7~50mm	Ø15×1.2mm	-20~60°C	for thin workpieces
<b>ISU-T08 (optional)</b>	T-E	5.0MHz	11mm	0.8~300mm	Ø25×1.2mm	-20~60°C	general use
<b>ISU-T12 (optional)</b>	T-E	2.0MHz	17mm	2~400mm	Ø40×3mm	-20~60°C	for casting iron
<b>ISU-T13 (optional)</b>	T-E	5.0MHz	15mm	3~100mm	Ø25×2mm	0~350°C	for high temperature
<b>ISU-T25 (optional)</b>	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

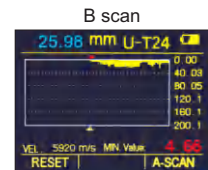
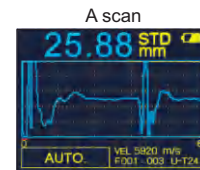
DATA  
OUTPUT

WITH A AND B SCAN



34

- 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



## 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
Transducer	type	single element transducer
	frequency	1.0MHz
	diameter (∅d)	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

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

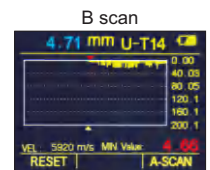
DATA  
OUTPUT

WITH A AND B SCAN

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



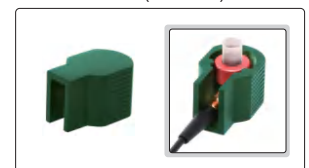
- For thin workpieces
- A scan, through the waveform, judges whether there are impurities, pores, cracks and so on inside, in order to avoid wrong measurement
- B scan, measures continuously, displays the thickness change on the screen
- Transducers can be automatically identified and zeroed
- Memory 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)

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

transducer protective  
sleeve (included)



### STANDARD DELIVERY

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



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

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



DATA  
OUTPUT

INSPECTION  
CERTIFICATE

- 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



34

### 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	116×64×27mm
Weight	220g

### STANDARD DELIVERY

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



### OPTIONAL ACCESSORY

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

### SPECIFICATION OF TRANSDUCERS (ON STEEL)

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



- 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



transducer ISU-T06 (optional)



transducer ISU-T13 (optional)



transducer ISU-T04 (optional)



transducer ISU-T12 (optional)

### 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-COUPPLANT

### 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	-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

INSPECTION  
CERTIFICATE

POPULAR  
MODEL



- 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)

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
	diameter (∅d)	10.8mm
Minimum size of 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

Main unit	1 pc
Transducer	1 pc
Couplant	1 bottle
Battery (AAA)	2 pcs