

Easily measure the thickness of a target from one side



Ultrasonic Thickness Gauge

Thickness
mm

You can instantly measure the thickness of a material simply by positioning a probe. This innovative gauge is widely used and is capable of measuring a variety of materials including iron, stainless steel, glass and ceramics.

Applications

Maintenance

- Checking corrosion of pipes, water tanks, tanks and bridges
- Checking wear of construction machinery and ship hulls
- Verifying the accuracy of metal molds and precision components

Product inspection

- Ferrous metals: Steel plates, pressed products, pipes, automobile parts, and cast metals
- Nonferrous metals: Processed copper products, copper alloys, and aluminum parts
- Plastics: Gas pipes, water pipes, plastic containers, and various other molded parts
- Others: Glass products, lenses, and ceramics

TI-45 Series Ultrasonic Thickness Gauge



This high-precision portable ultrasonic thickness gauge has a display precision of 1/100 mm. It efficiently supports quality control and precision control tasks.

- Resolution of 0.01 mm
- Extremely compact & lightweight
- Switch-selectable units – mm or inches
- Built-in calibration test plate
- Quick display update with last reading retained on the display
- Display symbols that alert user to poor coupling and low battery conditions

Measuring range/precision

Model	Application	Measuring range	Resolution accuracy*	Minimum diameter and thickness (for pipe)
TI-45N	Thick plate	1.00 to 199.99 mm	±0.05 mm or ±0.2% of reading	φ30.0 mm x 1.5 mm
TI-45B	Thin plate	0.40 to 15.00 mm	±0.03 mm	φ10.5 mm x 1.25 mm
TI-45C	Small-diameter pipe	0.50 to 19.00 mm	±0.03 mm	φ8.00 mm x 0.80 mm

*When measuring steel

TI-55/65 Series Precision Ultrasonic Thickness Gauge



Supports product inspections for quality control with simple operation and high-precision measurements.

- Specialized gauge for each usage
- Excellent value
- User-friendly operation and compact design

Measuring range/precision

Model	Application	Measuring range	Resolution accuracy*2	Minimum diameter and thickness (for pipe)
TI-55H*1 (For high temperatures)	0 to 100°C	1.5 to 100.0 mm	±0.1 mm or ±1.0% of reading	φ34.0 mm x 2.8 mm
	100 to 200°C	2.0 to 85.0 mm		φ60.0 mm x 3.0 mm
	200 to 250°C	2.5 to 75.0 mm		φ80.0 mm x 3.4 mm
TI-55F*1	Cast items	Cast 2.0 to 100.0 mm		φ30.0 mm x 2.0 mm
TI-65W	Wide areas	0.40 to 250.0 mm	0.40 to 99.99 mm ±0.05 mm	φ10.5 mm x 1.25 mm
			100.00 to 250.0 mm ±0.2%	φ30.0 mm x 1.5 mm Requires probe replacement

*1 Made-to-order product

*2 When measuring steel

Electromagnetic induction and eddy current measurement systems in a single unit.



Dual-system Film Thickness Meter

Thickness
μm

A dual-system (electromagnetic induction/eddy current) meter capable of measuring thickness of coatings and films on ferrous and nonferrous metals. For measuring the thickness of a wide range of coatings and films on iron, steel, copper, aluminum, and other metals.

6000FN1 Dual-system Film Thickness Meter



An all-in-one dual-system film thickness meter.

- Automatic selection of electromagnetic induction or eddy current measuring modes
- Integrated probe and main unit
- Dust-and splash-proof construction equivalent to IP5X

Measurement method	Electromagnetic induction	Eddy current
Materials	Iron, steel, etc. (Ferrous metals)	Aluminum, copper, etc. (Nonferrous metals)
Coatings	Paint, plastic, rubber, chrome, aluminum, enamel, zinc, etc.	Paint, plastic, rubber, anodized coatings (Alumite), etc.
Measuring range	Ferrous metals: 0 to 1500 μm	Nonferrous metals: 0 to 1500 μm
Measuring accuracy	±1 μm+1% (0 to 50 μm)	±2 μm+1% (51 to 1500 μm)
Resolution	1 μm (0.0 to 999 μm)	2 μm (1000 to 1500 μm)
Minimum target thickness	Ferrous metals: 0.38 mm	Nonferrous metals: 0.1 mm
Operating temperature range	0 to 50°C	
Power source	1.5V AAA alkaline dry batteries (x3)	
Dimensions/Weight	146 x 64 x 31 (H x W x D) mm 300 g (including protective rubber cover)	
Equivalent enclosure rating	IP5X	