

Ultrasonic Thickness Indicators

TI-45N/45NB/45NC



TI-45N



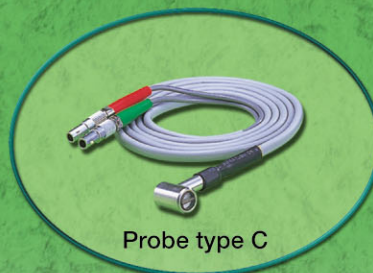
Options

Attachment for measuring pipes
(Equipment for standard probe)

※Picture : the attachment with the standard probe.



Probe for narrow and small
measuring points.



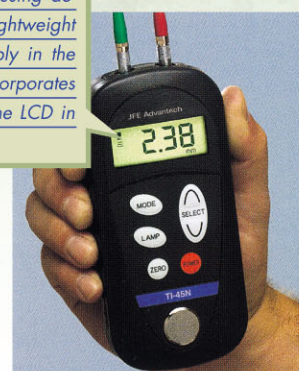
Probe type C

The new Ultrasonic Wall Thickness Indicator TI-45N, TI-45NB & TI-45NC accurately measures wall thickness of all metals, ceramics, glass and most rigid plastics.

Features

- 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 alert user to poor coupling and low battery conditions.

The attractive, ergonomic housing design is extremely compact, lightweight and rugged. It fits comfortably in the palm of your hand and incorporates a back light that illuminates the LCD in poorly lit areas.

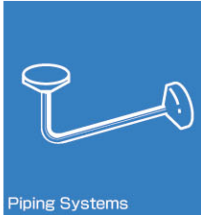


Made in Japan by
JFE Advantech Co., Ltd.
formerly Kawatetsu Advantech co.,Ltd.

- Applicable to measure wall thickness and state of corrosion of tanks, pipings, hull plate of ships, and structures.
- Also applicable to product inspection of various materials.
Metals ; steel, cast steel, cast iron (malleable cast iron, spheroidal graphite cast iron), aluminium, copper, brass, titanium, etc.
Non-metallic materials : glass, hard plastics (except acrylic), etc.



Storage Tanks



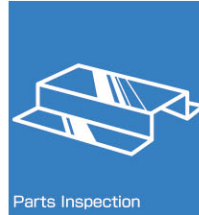
Piping Systems



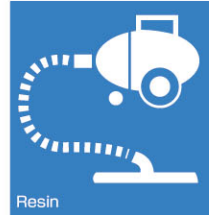
Ocean Vessels



Bottle



Parts Inspection



Resin

Front Panel

Mode select switch

MODE

Back light switch

AMP

Zero adjustment switch

ZERO

Power on-off switch

POWER

Test block (5mm)

TI-45N

Velocity table

Materials	CL (m/s)
Ceramics	10000
SUS410	7390
Aluminium	6260
Steel	5930
SUS304	5790
Glass	5570
Copper (Cu)	4700
Zinc (Zn)	4170
Polyethylene	1900

TI-45N series Complete Kit

The TI-40N series is supplied as a complete kit with the gauge and wrist strap, probe and cable assembly, 1 bottle of coupling fluid, battery and instruction manual-all supplied in a fitted, hard plastic carrying.



Specifications	TI-45N	TI-45NB	TI-45NC
Measuring range in steel & pipe dia	1.00~199.99mm φ30.0 × thickness 1.50mm or more	0.40~15.00mm φ10.5 × thickness 1.25mm or more	0.50~19.00mm φ8.0 × thickness 0.8mm or more
Tolerance resolution	±0.05mm or ±0.2%rdg	±0.05mm	±0.03mm
Probe	5Z10NDT-M (5MHz)	10Z10NDT-B (10MHz)	10Z6NDT-A (10MHz)
Diameter	φ13.0mm	φ13.0mm	φ7.5mm
Display	4 2/1 - digit LCD display, high with push button illumination		
Display resolution	0.01mm		
Velocity range	1,000m~1,2000m/s		
Cable	1m long cable with locking, quick removable connections		
Battery	One AA battery		
Calibration plate	5.00mm steel plate, built-in to the front of the housing		
Size	69 (W) × 144 (H) × 30 (mm)		
Weight	Gauge 200g, Probe 50g		
Temperature	-5°C~50°C (Ambient•Materials)		
Warranty	Gauge:1 year, Probe:6 month		

Option

Attachment for measuring pipes and tubes	TI-P01
Couplant	TI-C01

PRECAUTIONS

- The probe surface is fabricated from acrylic resin and care should be placed down for measurements and lifted vertically when complete. Do not slide on surfaces.
- Do not use this gauge where material temperatures exceed 60°C (140°F) as the probe will be damaged. Use the Temperature Thickness Gauge for these applications.
- Keep the gauge free of dust (especially metal powders, carbon, etc.) as they will damage the PC Board. Use a damp cloth to clean the gauge after use. DO NOT USE CHEMICAL SOLVENTS OF ANY KIND.

※Specifications may be changed without notice due to proceeding improvements.



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