

Ultrasonic Thickness Gauges

TI-45NA/45BA/45CA



Options

Attachment for measuring pipes
(Equipment for standard probe)

* Picture : Attachment with standard probe

TI-P01A Attachment

Probe type 10Z6NDT-A for TI-45CA

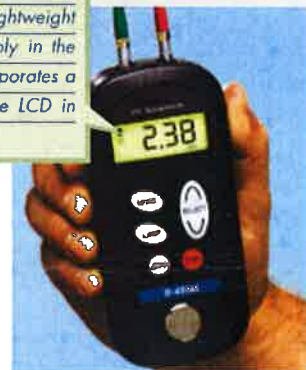
Probe for narrow and small
measuring points
Probe type 10Z6NDT-A can work with only TI-45CA

The new Ultrasonic Wall Thickness Gauges TI-45NA, TI-45BA & TI-45CA accurately measure wall thickness of all metals, ceramics, glass and most rigid plastics

Features

- Resolution of 0.01mm
- 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

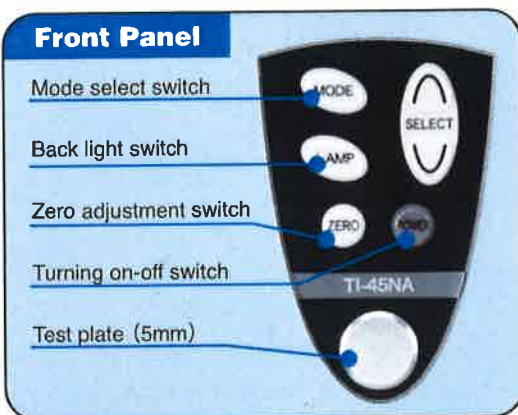
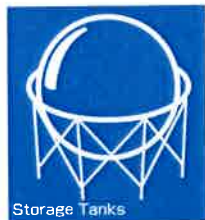
JFE Advantech Co., Ltd.

formerly Kawatetsu Advantech Co.,Ltd.

Ultrasonic Thickness Gauges

TI-45NA/TI-45BA/TI-45CA

- 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, aluminium, copper, brass, titanium, etc.
Non-metallic materials : glass, hard plastics (except acrylic), etc.



| Velocity table | |
|----------------|----------|
| Materials | CL (m/s) |
| Steel | 5920 |
| SUS 304 | 5790 |
| Glass | 5570 |
| Copper | 4700 |
| Zinc | 4170 |



| Specifications | TI-45NA | TI-45BA | TI-45CA |
|--|---|--------------------------------------|-----------------------------------|
| Measuring range | 1.00-199.99mm | 0.40-15.00mm | 0.50-19.00mm |
| In steel & pipe dia | φ27.2 × thickness 1.50mm or more | φ10.5 × thickness 1.50mm or more | φ10.5 × thickness 0.8mm or more |
| Resolution accuracy*1 | ±0.05mm or ±0.2%rdg +2 | ±0.03mm | ±0.03mm |
| Probe Diameter (Contact surface Diameter) | 5Z10NDT-M (5MHz) φ13.0(φ11.5)mm | 10Z10NDT-B (10MHz) φ13.0(φ11.5)mm | 10Z6NDT-A (10MHz) φ7.5(φ6.5)mm |
| Display | 4 1/2 - digit LCD display, light with push button illumination | | |
| Display resolution | 0.01mm | | |
| Velocity range | 1 000m/s to 12 000m/s | | |
| Cable | 1m long cable with locking, quick removable connections | | |
| Battery | One AA battery | | |
| Calibration plate | Built-in test piece | | |
| Size | 69(W) × 144(H) × 30(D) (mm) | | |
| Weight | Gauge:150g ± 10g, Probe type 5Z10NDT-M:50g ± 10g, Probe type 10Z10NDT-B:50g ± 10g, Probe type 10Z6NDT-A:35g ± 10g | | |
| Temperature | -5°C to 50°C (Ambient·Materials) | | |
| Warranty | Gauge:1 year, Probe:6 months | | |

*1 in case of steel measurement
*2 "rdg" means abbreviation of "reading"

Option

| | |
|--|---------|
| Attachment for measuring pipes and tubes | TI-P01A |
| Couplant(coupling fluid) | 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 these gauges where material temperatures exceed 60°C (140°F) as the probe will be damaged. Use the High 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.