

Ultrasonic thickness gauge

TI-100K

ISO9001



JQA-0950

Ultrasonic thickness gauge with large scale data memory!
Lightweight and multifunction!

◆ Features

- **Data memory**
Max. 10000 records capacity enables effective and easy data management
- **Data transferring to PC**
Measurement data can be transferred to PC via USB cable
- **Difference display, Upper/Lower alarming**
Display of difference between measured value and pre-input reference value, in thickness (mm or inch) and ratio (%)
Alarming at exceeding/falling below preset threshold value
- **Statistical processing function**
Automatic calculation of Maximum value, Minimum value, Average value, Standard deviation of each data group
- **Wide application**
Wide application even for pipes, various materials such as aluminum, resins, etc. by specified measuring modes and variable gain settings
- **Velocity of propagation setting register**
Standard pulse propagation speed settings for various materials and 5 free settings by the user



TI-100K

▶ Output to PC (example)

10 TABLE10						
Model	TI-100K					
S/N	0					
Version.	1.05					
Unit	mm					
Row	10					
Column	2					
Data						
No.	Date	Value(mm)	Velocity(m/s)	Gain	Mode	Prove
0	2017/2/6 14:18	4.7	5916	Middle	S-B	TYPE K
1	2017/2/6 14:18	4.9	5916	Middle	S-B	TYPE K
2	2017/2/6 14:18	5	5916	Middle	S-B	TYPE K
3	2017/2/6 14:18	5	5916	Middle	S-B	TYPE K
4	2017/2/6 14:19	5	5916	Middle	S-B	TYPE K

▶ Attachment for pipes (Option)

*Attachment on a probe



TI-P01A

Supply records of over 45000 sets guarantee high commendation for TI series as standard tools.
Non destructive measurement from one side



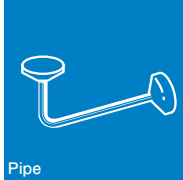
JFE Advantech Co., Ltd.

Ultrasonic thickness gauge

TI-100K

Typical applications

- ▶ Quality control by finished dimension of rolled, machined or draw-formed products
- ▶ Measurement as final check on metal formed products
- ▶ Thickness testing of various tanks made of steel and resin
- ▶ Check of thinning and corrosion on pipes, tanks, ship hull, and factory facilities
- ▶ Check of wearing and thinning on construction machines
- ▶ Corrosion check of boiler pipes
- ▶ Check of lighting poles and road sign poles



TI-100K inherits high performance of predecessors including popular TI-45NA, and also have memory function and statistical processing performance. Ideal for thickness data acquisition on hazardous material storage tanks, piping, etc.

Specifications

Object material	Metals such as Steel, Stainless steel, Aluminum, Titan etc., Non-metal such as Glass Resins, etc.
Measuring method	Ultrasonic pulse reflection method
Working temperature	From -5 to 50°C
Measuring range *1	From 0.80 to 80.00mm
Minimum measurable size for pipes	Outer diameter ϕ 27.20mm or bigger
Wall thickness	Min. 1.50mm
Indication unit	0.01mm
Accuracy *1	Measurement accuracy $\pm 0.05\text{mm}^{**}$ Reproducibility $\pm 0.02\text{mm}^{**}$
Reproducibility	$\pm 0.1\text{mm}$
Probe	1meter cable integrated probe
Model	SZ10NDT-K
Frequency	5MHz
Diameter (contact surface)	ϕ 13.0mm (ϕ 11.5mm)
Probe replacement	Replaceable by users
Display	Digital LCD (128X64) with backlight
Measurement mode	S-B, R-B
Statistical function	Number of data, Maximum value, Minimum value, Average value, Standard deviation
Memory function	Maximum storage records: 10000 data (1000 X 10 groups)(Grouping possible) Contents
Alarm function	Upper/Lower alarm
Data output	Data output USB terminal (USB mini-B)
Pulse propagation speed setting range	1000 to 12000m/s
Power supply	2 AA alkaline dry batteries
Dimensions	70mm (W) X 155mm (H) X 33mm (D)
Weight (including dry batteries)	Main unit : 200 \pm 10g Probe: 50 \pm 10g
Standard configuration	1 main unit, 1 probe, 1 carrying case, 1 bottle of couplant, 2 AA alkaline dry batteries, 1 USB cable, data processing software in 1 CD, 1 built-in calibration block for zero adjustment, 1 instruction manual, 1 test report, 1 guarantee card

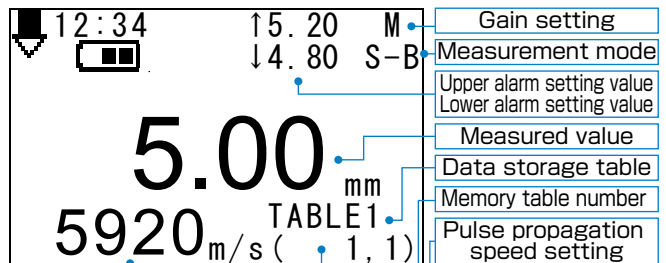
*1 In cases of measurements of steel

Options

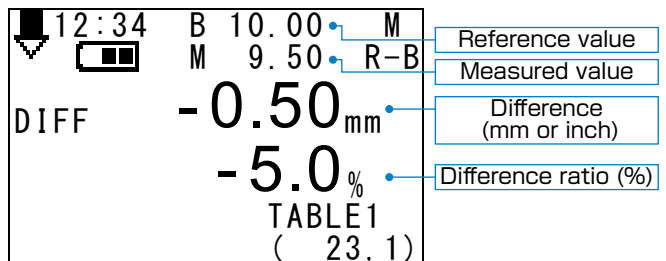
Attachment for pipes	Model : TI-P01A
Couplant	Model : TI-C01

Display

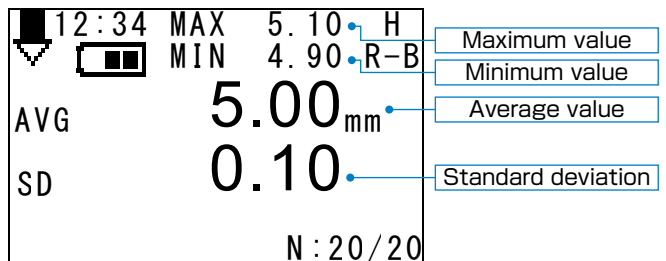
Measurement screen



Difference display measurement screen



Statistical processing measurement screen



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