



OTE 50

Ultrasonic Thickness gauge

The model OTE50 is a multi-mode ultrasonic thickness gauge. Based on the same operating principles as SONAR, the instrument is capable of measuring the thickness of various materials with resolution as high as 0.01 / 0.1 millimeters.

The multi-mode feature of the gauge allows the user to toggle between pulse-echo mode, and echo-echo mode.

The digital ultrasonic thickness gauge determines the thickness of a part or structure by accurately measuring the time required for a short ultrasonic pulse generated by a transducer to travel through the thickness of the material.

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- ✓ 4.5 digits LCD with EL backlight
- ✓ Extruded Aluminum body suitable for use under poor working conditions
- ✓ Ignores coatings up to 1200 microns in echo-echo mode
- ✓ Measures thickness of material up to 600 mm in pulse-echo mode (for Steel)
- ✓ Probe zero function / Easy and fast calibration
- ✓ Sound velocity range : 1000~9999 m/s
- ✓ Resolution: 0.01 / 0.1 mm
- ✓ Accuracy: \pm (%0.5 thickness + 0.01) mm, depends on materials and conditions
- ✓ Metric/imperial unit
- ✓ Single point and Scan mode, seven measurements readings per second for single point measurement and sixteen per second for scan mode
- ✓ Memory for 20 files (Up to 100 values for each file) of stored values
- ✓ Upper and lower limit can be pre-set (with Auto-alarm function)



Model	OTE 50
Display	4.5 digits LCD
Measurement mode	Pulse-echo Echo-echo
Measurement rate:	
Single point measurement mode	Seven readings per second
Scan mode	Sixteen readings per second
Measurement range:	(in steel)
Pulse-echo	0.65 ~ 600 mm
Echo-echo	2.5 ~ 100 mm
Measurement accuracy	\pm (0.5% thickness + 0.01) mm
Measurement resolution	0.1 / 0.01 mm
Velocity calibration range	1000 ~ 9999 m/s
Additional features	High speed scan mode Limit alarm mode
Data logging	Memory for 20 files (Up to 100 values for each file)
V path/error correction	Probe zero function
Transducer type	Dual T/R
Transducers	2.5 MHz Probe 5 MHz Straight Probe 5 MHz Probe 7 MHz Probe High Temperature 5 MHz Probe
Calibration options	Sound velocity calibration One point calibration Two point calibration
Stability indicator	Visual Sound alarm
Power source	2 x AA batteries
Approx. battery life *with backlight off	200 hrs
Operating temperature	Operating Condition
Storage temperature	-20 ~ +50 C°
Relative humidity	-30 ~ +70 C° \leq 90%
Protection Class	Meets IP65 requirements
Compliance	BS EN 15317:2013
Transducer connector type	LEMO
Weight	345 gr
Size	132mm x 77.6mm x 32mm

* Specifications are subject to change without prior notice

Transducer selection

Freq. (MHz)	Dia. (mm)	Measuring range (in steel)
2.5	10	2.5~600 mm
5	10	1~230 mm
7	6	0.65~200 mm
5 High Temperature	12	1~600 mm

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Standard Kit Content
Main Unit
5 MHz Probe with cable
Couplant
ABS Carry case
2 x AA batteries
User documents (including user manual)