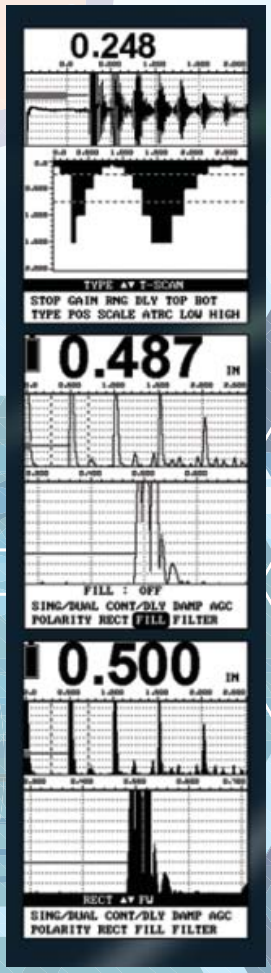
Ultrasonic Thickness Gauge

เครื่องวัดความหนาระบบ อัลตร้าโซนิค

The Nova TG 210 & Nova TG410 – A-Scan Ultrasonic Thickness GaugesBigger Is Not Always Better! The All New Nova A-Trace Series of Ultrasonic Thickness Gauges define a new standard for performance, features and portability in Hand-held Ultrasonic Thickness Gauges. This ALL NEW Nova A-Trace Series offers Pulse Rep Rates up to 300Hz, With Display Updates of 30Hz, fast enough for all but the most demanding applications. With the introduction of three NEW, Industry Leading Features including Split-view, Split-scan and Auto-track The New Nova Series possibly presents the best features for price in High Performance Ultrasonic Thickness Gauges today. The high speed, fully sunlight readable, backlit display offers Quarter VGA resolution. The resolution of the display will appear to approach analogue! User interface is via simple plain text menus located at the bottom of the display. Large numeric display zone offers full 7/16" high characters representing Thickness.



NOVA TG410:

• All of the features of the TG210 & also Precision Measurement, all in one Gauge. o Split-screen, A-trace o Data logging of more than 100,000 points with more than 1,500 waveforms, B-Scan or combination.

- Auto Probe Recognition
- Multi-probe capability
- Alarm modes
- USB Output (optional extra for Data Transfer software and cable)
- Calibratable from 0.020 to 20"
- Through Paint Capable
- Scrolling B-Scan Standard
- Encoded B-Scan Option Available

• Single or Dual Element, Contact or Delay Line / Bubbler. Range 0.0050" – 20" • Gating from IP-1st, 1st-2nd, 2nd-3rd. • IP Blocking Gate, IF Blocking Gate & Echo Blocking.

• High-Resolution (0.0001in, 0.0025mm)

*สอบถามราคาได้ที่ 02-9744354-6 หรือสายด่วน 082-1288881, 081-7731860

ITOKIN TECHNOLOGY CO., LTD.
3/18 Soi 33,Vibhavadi Rangsit Road, 1-6 Separate.Airport, Don Muang, Bangkok 10210 Thailand.
(Monday- Friday 8.30-17.30) E-mail:salesitokin@gmail.com /www.itokin2000.com

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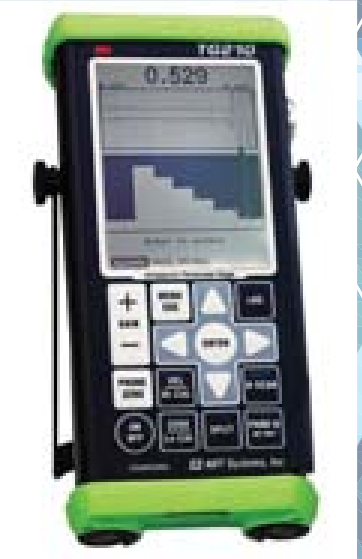
เครื่องวัดความหนาระบบ อัลตร้าโซนิค

Technical Specifications

•Display: o240 x 320 Graphic (2.3"W x 3.1"H)oBack light – On / Off / Auto with reading. Last reading hold oSplit-view: (Hand-held Industry First)
– Main Trace Window: 100 – 10% in 10% Increments
– Split View Window: 10% – 100% in 10% Increments as a Function of Main Trace Window Size
– Split-scan: (Hand-held Industry First) Display A-Trace and B-Scan Simultaneously
– Auto-track: (Hand-held Industry First)
– When in Split-view, Second Window Displays a Zoom View of the Main A-Trace which Tracks The Echo Being Measured oScreen Freeze Mode •Physical: 3.25" Wide x 1.4" Deep x 7" Long All Aluminium with gasketed end caps •Range: 0.005" – 20" Total incorporating 40" Delay Resolution – 0.0001" • Inch/mm selectable •Velocity Range: 0.0490 to .9999 in/us • fully adjustable.•Calibration: Range, Delay, Velocity & Zero•Pulser / Receiver: Up to 300Hz Rep Rate, Unique and Adjustable IP Suppression Mode•Display Mode: RF, +HW, -HW, FW •GAIN: Hardware AGC or user selectable gain 66dB with 96dB Attenuation • 500Khz – 20MHz
– Probe Select: Single / Dual Element Probe Library Selection
– Damping: – 8 Damping Levels 22 – 2K Ohms
– Alarm: LED Thickness High, Lo or High/Lo I/O:
– RS-232 I/O: Download data from logger (Optional USB Connectivity)
– Memory: 2 Megabyte data logger. 30+ character alpha numeric identification of files. Store 20,000+ Data Points with Waveforms & B-Scans
– Operational Modes: Single/Dual/Angle/Contact/Delay
– Gates: Contact – IP-1st, 1st-2nd Permits Through Paint Delay/Bubbler/Immersion IP Blocking, IF Blocking, IF-1st, 1st-2nd Echo Block, POSITIVE or NEGATIVE Gating
– B-Scan Features: Stacked Echo or Section View
– 'T' Scan – Time encoded 'B' Scan (Scrolling) Encoded B-Scan
– Power Requirements: Operates on 3 or 6 AA Alkaline or NiMH Batteries
– Charger & Batteries Included
– Transducers, cables and accessories are available for almost any application
– Pelican Style Hard Plastic carry case included
– CE Approved



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Ultrasonic Thickness Gauge

เครื่องวัดความหนาระบบ อัลตร้าโซนิค

Features

1.Capable of performing measurements on a wide range of material, including metals, plastic, ceramics, composites, epoxies, glass and other ultrasonic wave well-conductive materials.
2.Transducer models are available for special application, including for coarse grain material and high temperature applications.
3.Probe-Zero function, Sound-Veloctiy-Calibration function.
4.Two-Point Calibration function.
5.Coupling status Indicator showing the coupling status.
6.Battery information indicates the rest capacity of the battery.AAA model battery and Ultra-low power consumption, it is can continue working 100 hours.
7.Auto sleep and auto power off function to conserve battery life.
8.Usb port with Protective Membrane and datapro software to process the memory data on the PC.
9.Optional thermal mini-printer to print the measured data via USB port.
10.Adjust gain function ,can easy to test the cast iron material,

TM-210 PLUS

SPECIFICATION

Display:	128*64 LCD with LED backlight.
Measuring range:	0.75mm~300.0mm (0.03inch~11.8 inch)
Sound velocity:	1000m/s~9999m/s (0.039~0.394in/ns
Display resolution:	0.01mm or 0.1mm (lower than 100.0mm) 0.1mm (more than 99.99mm)
Accuracy:	±(0.5%Thickness +0.02)mm, depends on Materials and conditions
Units:	Metric/Imperial unit seletable.
Lower limit for steel pipes:	5MHz probe: Φ20mm ×3.0mm(Φ0.8 ×0.12 inch) 10MHz probe: Φ20mm ×3.0mm(Φ0.6 ×0.08 inch)
Power Source:	2pcs 1.5V AA size, batteries.100 hours typical operating time(LED backlight off).
Communication:	USB serial port
Outline Dimensions:	150mm*74mm*32mm
Weight:	238 g

Four measurements readings per second for single point measurement,
Memory for up to 5 files(up to 100 values for each file) of stored values

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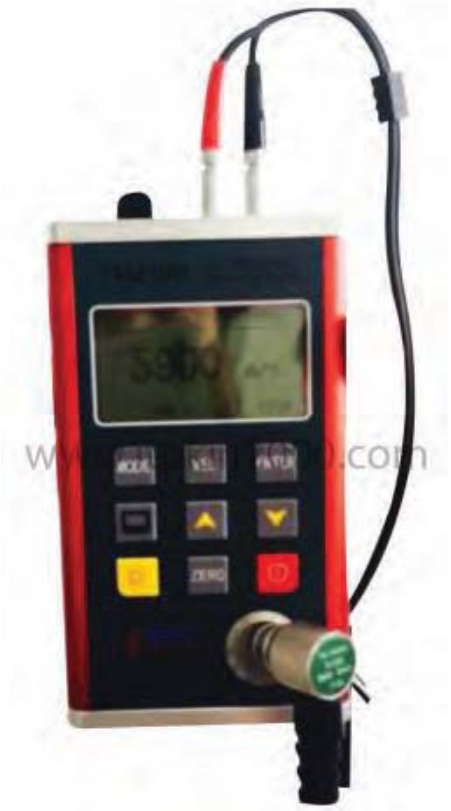
3.Probe-Zero function, Sound-Veloctiy-Calibration function.
4.Two-Point Calibration function.
5.Coupling status Indicator showing the coupling status.
6.Battery information indicates the rest capacity of the battery.
7.Auto sleep and auto power off function to conserve battery life.
8.Optional software to process the memory data on the PC.
9.Optional thermal mini-printer to print the measured data via USB port.
10,Adjust gain function ,can easy to test the cast iron material.

TM-210B



Specifications

- Display: 128×64 LCD with LED backlight.
- Measuring range: 0.75mm~300.0mm (0.03inch~11.8 inch)
- Sound velocity: 1000m/s~9999m/s (0.039~0.394in/μs
- Display resolution:0.01mm or 0.1mm (lower than 100.0mm)

  0.1mm (more than 99.99mm)
- Accuracy: ±(0.5%Thickness +0.02)mm, depends on Materials and conditions
- Units: Metric/Imperial unit seletable.
- Lower limit for steel pipes: 5MHz probe: F20mm´3.0mm(F0.8´0.12 inch)

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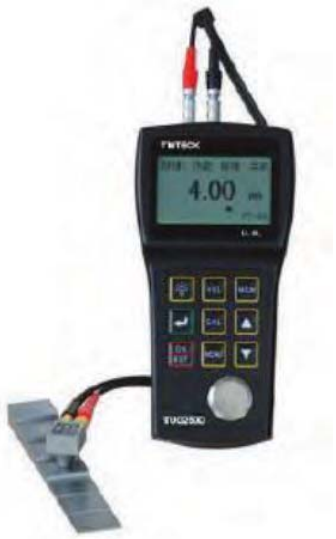
Ultrasonic Thickness Gauge

เครื่องวัดความหนาระบบ อัลตร้าโซนิค

Features

- Automatic Self Calibration
- Couplant Indicator
- Automatic Power Off Divice
- High – Low Limit Alarm
- LCD Brightness Adjust
- Though Coating Capability
- Low Battery Indicator

TM-230D
TM-250D



Velocity Range	1000 – 9999 m/s (0.0393 – 0.3936 inch/us)
Display Type	4 Digital LCD with advanced backlight
Memory	500 Test Values
Power	2 pcs. 1.5v AA Batteries
Outside Dimension	149 mm x 73 mm x 32 mm
Weight	160 g

Through Paint or Coating Ultrasonic Thickness Gauge

SPECIFICATION

Specification		TM-230D	TM-250D
Measuring Range (Steel)	Standard	0.8 mm - 250 mm Depending of the Probes	
	Through Coating	3 mm - 18 mm Depnding of the probes	
Display Resolution		0.1 mm or 0.01 inch	0.1 mm / 0.1 mm or 0.01 inch /0.01 inch
Tolerance		+- 0.1 mm in steel	+- 0.025 mm in steel

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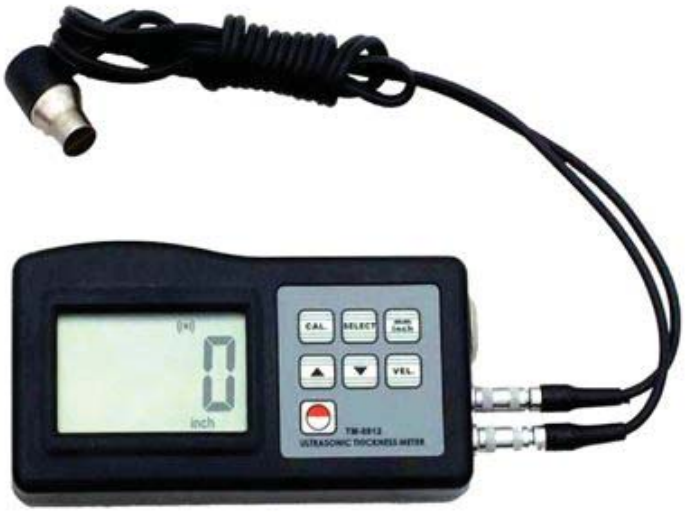
Ultrasonic Thickness Gauge

เครื่องวัดความหนาระบบ อัลตร้าโซนิค

TM-8812

The TM-8812 is a handheld microprocessor-controlled ultrasonic thickness gauge specifically designed to measure the thickness of metallic and non-metallic materials e.g. aluminium, titanium, plastics, ceramics, glass, plastics including rubber and other good ultrasonic wave conductors, as long as they have parallel top and bottom surfaces. This gauge can be used to determine the exact thickness of pipework to ensure the correct settings on an ultrasonic flow meter. The TM-8812 will check a pipe for loss of thickness due to corrosion or erosion.



Features

Pocket sized and light weight
Range of 0.05 ~ 9.0" (1.2 ~ 225mm)
Resolution of 0.001" (0.1mm)
Display selectable in mm or inch
Built-in calibration test plate
Low Battery Indication
RS232C interface

Specifications:

Display	4 digit 0.7" (10mm) LCD
Measurement range	0.05 ~ 9.00" (1.2 ~ 225mm) [45# Steel]
Resolution	0.001" (0.1mm)
Accuracy	± 0.5%n + 0.1
Velocity range	3,281 ~ 29,528 ft/sec (1,000 ~ 9,000 m/s)
Battery	4 each 1.5V AA (UM4)
Operating Temperature	32-122°F (0-50°C)
Case construction	Rugged ABS plastic
Dimensions	4.7" L x 2.44" W x1.2"H (120 mm x 62 mm x 30 mm)
Weight	With batteries: 9 oz (260 g)

Accessories

Carrying Case
4 each 1.5V AA (UM4) Batteries
Instruction Manual

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Ultrasonic Thickness Gauge

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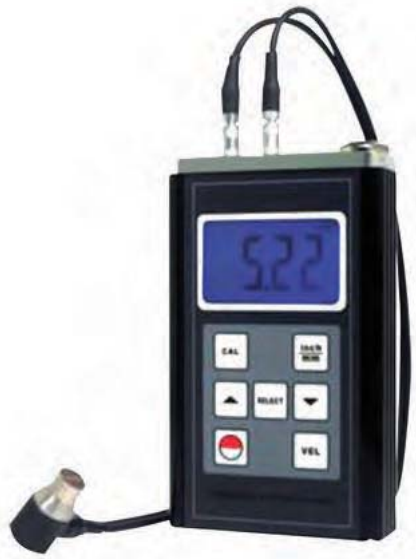
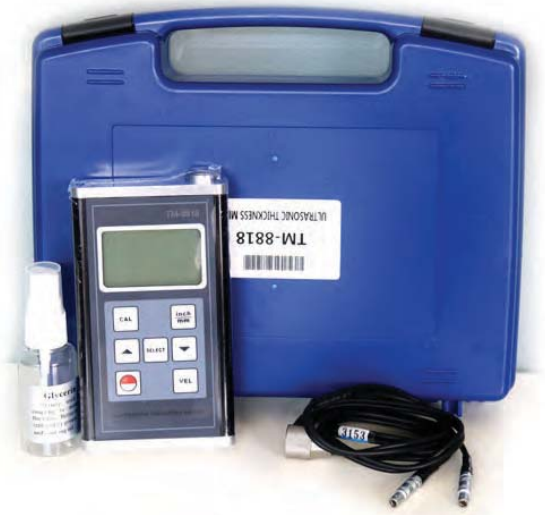
Applications

Used for measuring thickness and corrosion of pressure ves-sels, chemical equipment, boilers, oil storage tanks etcin industries of petroleum, shipbuilding power station and machine manufacturing.

TM-8818





SPECIFICATION

Case meterial	Aluminum
Display	4 Digit LCD
Operating Principle	Ultrasonic
Measuring range (metric/Imperial)	0.9 - 400 mm (45 Steel)
Battery Indication	Low battery indication
Sound velocity	1000 - 9000 m/s
Lower limit steel pipes	Diameter 2 x 3.0 mm
Calibration Block	Included
Resolution	0.01 /0.1mm
Accuracy	+- (0.5% n+0.1)
Automatic memory material code and the value of sound velocity	
Power off	Auto power off & manual power off
Operating Conditions	Temperature 0 40 C , Humidy : < 85% RH
Power Supply	2 x 1.5 V AA (UM-3) Battery
Dimensions	130 x 76 x 31 mm
Weight	340g (Not including Batteries)

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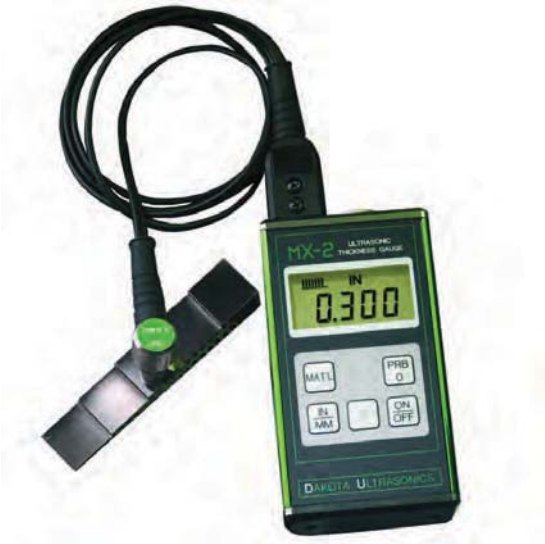
Ultrasonic Thickness Gauge

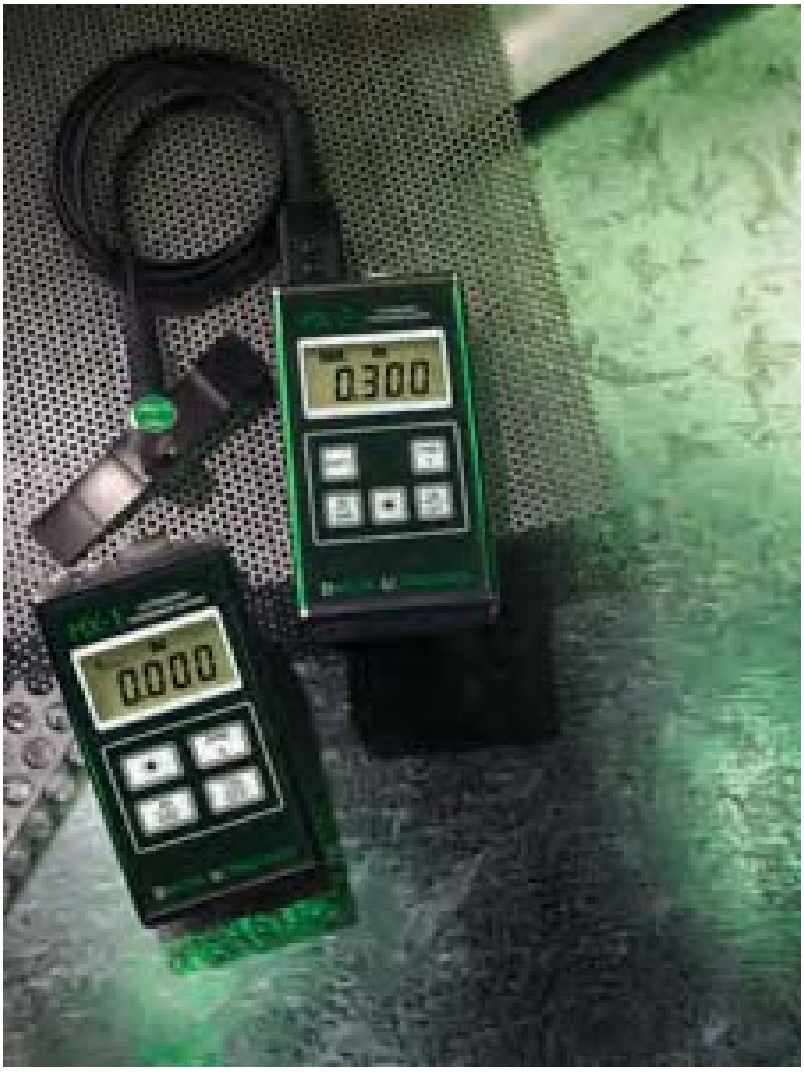
เครื่องวัดความหนาระบบ อัลตร้าโซนิค

MODEL MX2

Applications

The MX-2 is ideal for the person that tests a few different materials regularly. The MX-2 contains 8 velocities of common materials and two velocities that the user can set using a simple sofware program. The tool's backlit display is easy to read, even in dim light, and the unit operates for up to 200 hours on a single set of batteries. The MX-2 comes complete, ready to use, and is protected by Dakota Ultrasonics 5 year limited warranty.





MADE IN JAPAN

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MODEL MX2

PHYSICAL
Weight: 10 ounces
Size: 2.5 W x 4.75 H x 1.25 D inches
63.5 W x 120.7 H x 31.8 D mm
Operating Temperature: -20 to 120F (-20 to 50C)
Case: Extruded aluminum body / nickel plated aluminum end caps. Resistant to impact and environmentally sealed.

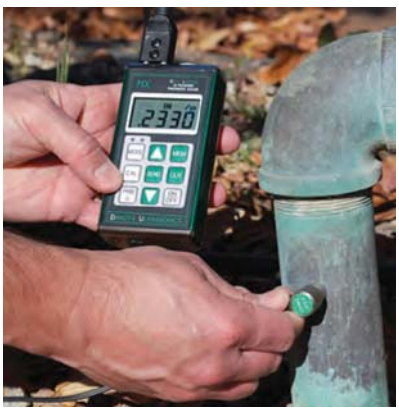
POWER SOURCE
Two 1.5V alkaline or 1.2V NiCad AA cells.
Typically operates for 200 hours on alkaline and 130 hours on NiCad.

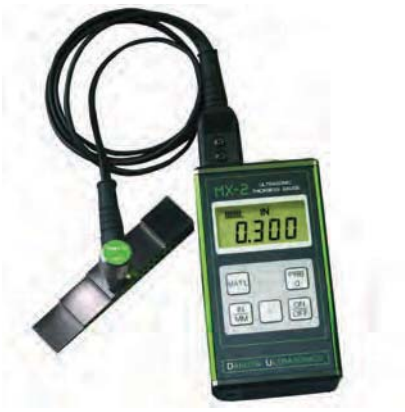
DISPLAY
Multi-function 4.5 digit liquid crystal display with 0.500 inch numerals, backlit for use in poor light conditions.
Measurements displayed in inches, inches/microsecond, millimeters, and meters/second.
Bar graph indicates stability or reading.

SOFTWARE
Comes complete with cable and software to transfer the velocity to the gauge.

MEASURING
Range: Measures from 0.025 to 19.999 inches (0.63 to 500 millimeters)
Switch to select English or metric units.
Resolution: 0.001 inch (0.01 millimeter)
Velocity Range: .0492 to .3937 in/m s
1250 to 10,000 meters/sec
Built-in: Stainless steel reference disk for probe zeroing.
Four readings per second for single point measurements or 16 per second in SCAN mode.
Velocity Settings: The MX-2 has 8 set velocities and 2 that are custom to the user's applications. The set velocities are as follows:

1. Steel 4340 (.233)
2. Stainless Steel 303 (.223)
3. Aluminum 2024 (.251)
4. Cast Iron (.179)
5. Plexiglass (.106)
6. PVC (.094)
7. Polystyrene (.092)
8. Polyurethane (.070)
9. Custom





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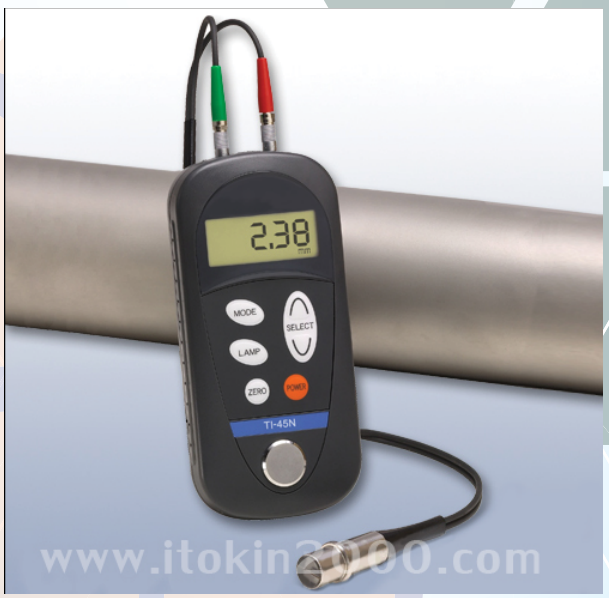
Measuring Range in Steel
0.040 – 8.00 inches
1.00 – 200.0 mm

TI-45NA Ultrasonic Wall Thickness Gauge accurately measures wall thickness and the extent of corrosion of all metals, ceramics, glass and most rigid plastics – from only one side! The attractive, ergonomic housing design is extremely com-pact, 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.



IT-45N

ULTRASONIC THICKNESS

Features

- TI-45NA includes new Pipe Mode for stable measurement on small diameter pipe (1" and larger)
- Resolution of 0.001" (0.01mm)
- Extremely small & lightweight operates from a single AA battery
- Switch-selectable units – inches or mm
- 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
- TI-45N-HD includes slip-on, ergonomic rubber sleeve for improved grip and additional physical pro-tection
- User Adjustment of Acoustic Velocity or selection 10 preset velocities

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Features

- Class leading performance for the price
- Auto Probe Recognition
- Time encoded B-scan
- Multi-probe capability
- USB, data logging, alarm modes

TG-110-DL MADE IN USA

Physical / Case	Weight	0.8lb (0.36kg)
	Dimensions (W x H x D)	3.00in. x 4.90in. x 1.25in. (76mm x 99mm x 32mm)
	Operating Temperature	14 °F to 122 °F (-10 °C to 50 °C)
	Case Construction	Aluminum body, rubber end caps
	Connector type	Lemo01
Keypad	Keypad construction	Tactile membrane feedback keys
Transducer	Transducer type	Dual
	Freq range	2.25MHz or 5MHz (included), 10MHz (optional)
	Cable length	6ft (1.83m) (included)
Power Source	Power Source	AA batteries
	Battery life	150 hours
Display	Display type	Backlit liquid crystal
	Display size	128 x 64 pixels, 1.96in. x 1.25in. (50mm x 32mm)
Certification	Certification	Factory Calibration
Warranty	Warranty	1 year
Measurements	Thickness range	0.022in. to 50.000in. (0.559mm to 1,270.00mm)
	Units displayed	in. / mm
	Resolution	0.001in. (0.025mm)
	Material Velocity Range	0.0490 to 0.9999in./µs (1.24 to 25.40mm/µs)
	Acquisition Speed	4 readings per second
Memory	Data Logger	50,000 readings, 30 character
Interface	I/O	USB

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เครื่องวัดความหนาระบบ อัลตร้าโซนิค

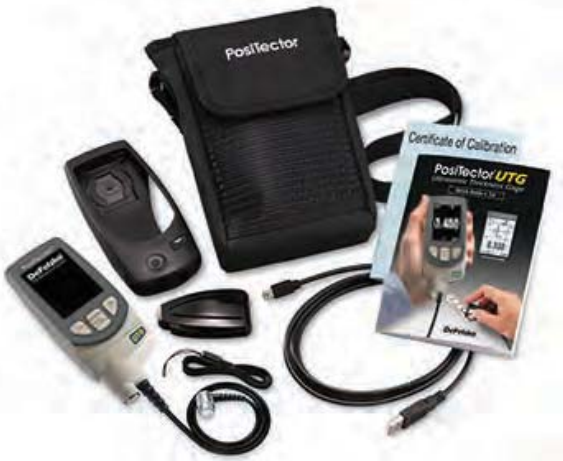
Durable
- Solvent, acid, oil, water and dust resistant–weatherproof
- Impact resistant lens
- Shock-absorbing, protective rubber holster with belt clip
- Two year warranty on body AND probe

Accurate
- Precision transducers provide fast, accurate readings
- Certificate of Calibration showing traceability to NIST included
- Conforms to national and international standards including ASTM E797
- Built-in temperature compensation ensures measurement accuracy

Versatile
- Universal Gage Body accepts all PosiTector UTG, 6000, DPM and SPG probes
- Flip display enables right-side-up viewing
- Selectable display languages
- Hi contrast backlit display for bright or dark environments
- Single or two point adjustment
- Inch/mm switchable
- Uses alkaline or rechargeable batteries (built-in charger)

UTG-M/ UTG-C1/ UTG-C/ UTG-M

SPECIFICATION



PosiTector UTG	Corrosion		Multiple Echo	
				
Order Code	UTG C1	UTG C3	UTG M1	UTG M3
Included Body	Standard	Advanced	Standard	Advanced
Included Probe	UTG C		UTG M	
Probe Type	5 MHz Dual Element		5 MHz Contact	
Thru-Paint Capability	no		yes	
Range Single Echo	0.040" to 5.000" 1.00 to 125.00 mm		0.100" to 5.000" 2.50 to 125.00 mm	
Range Multiple Echo	NA		0.100" to 2.500" 2.50 to 60.00 mm	
Resolution	0.001" 0.01 mm		0.001" 0.01 mm	
Accuracy	±0.001" ±0.03 mm		±0.001" ±0.03 mm	

*สอบถามราคาได้ที่ 02-9744354-6 หรือสายด่วน 082-1288881, 081-7731860

ITOKIN TECHNOLOGY CO., LTD.
3/18 Soi 33,Vibhavadi Rangsit Road, 1-6 Separate.Airport, Don Muang, Bangkok 10210 Thailand.
(Monday- Friday 8.30-17.30) E-mail:salesitokin@gmail.com /www.itokin2000.com

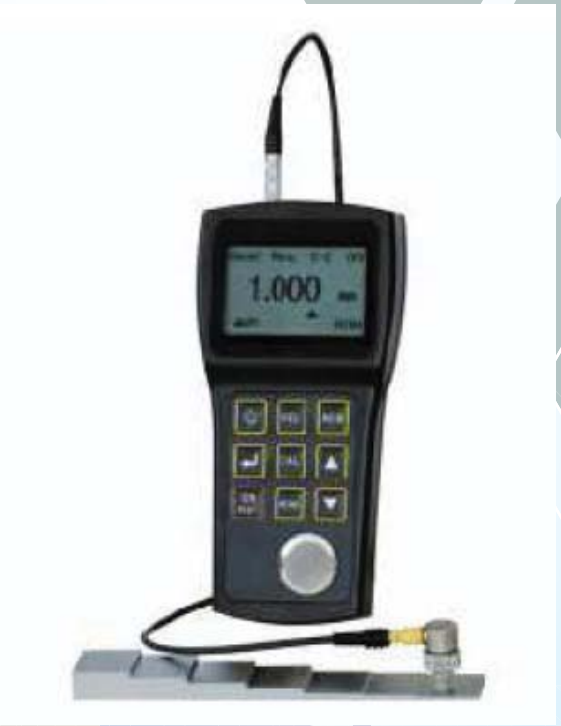
Ultrasonic Thickness Gauge

เครื่องวัดความหนาระบบ อัลตร้าโซนิค

HIGH PRECISION

Features

- High accuracy and resolution up to 0.001mm or 0.0001inch
- Measuring ultra thin sample as low as 0.15mm or 0.006inch
- Display units : Imperial and Metric
- Automatic sefe calibration
- Couplant indicator
- Automatic power off device
- High-low limit alarm
- LCD brightness adjust
- Low battery indictor



Standard Delivery

- Main processor with Calibration block (4.00mm)
- Precision probe (D11R) with replaceable delay tip
- Coupling paste
- Operation manual
- Consumer-type 2 AA type alkaline battery (3Volt)
- Carrying case

SPECIFICATION

Measuring Range (for Steel)	Interface-Echo Model (I-E or Standard Mode)	1.50 mm - 20.0 mm (0.059 in - 0.787 in)
	Echo - Echo Mode (E-E or High Precision Mode)	0.15 mm - 10.0 mm (0.006 in - 0.394 in)
Measuring Accuracy	+- 0.005 mm or 0.0002 inch (if thickness < 3 mm)	
	+- 0.05 mm or 0.002 inch (if thickness < 20 mm)	
Display Resolution	mm : 0.1 /0.01 /0.001	
	inch : 0.01 / 0.001 / 0.0001	
Sound Velocity Range	1000 to 9999 m/sec (0.0394 - 0.3936) inch/msec	
Measuring Refresh Frequency	4 Hz in normal mode, up to 25 Hz	
Memory Capacity	500 test values	
Multiple Calibrations	One point or Two point	
Display LCD	42 x 57 mm LDC Size with El backingth and adjustable contrart , font size up to 13.75 mm (0.54 inch)	
Power Source	2 Pcs 1.5V AA Size Batteries	
Continuous Working Period	About 200 Hours (with Backlight off)	
Power off	Auto power off if idie for 4 minutes	
Operating Temperature	-10 C to +50 C	
Unit Size	2.9 W x 5.9 H x 1.26 D inches (73 W x 149 H x 32D mm)	
Weight	200 G	

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Ultrasonic Thickness Gauge

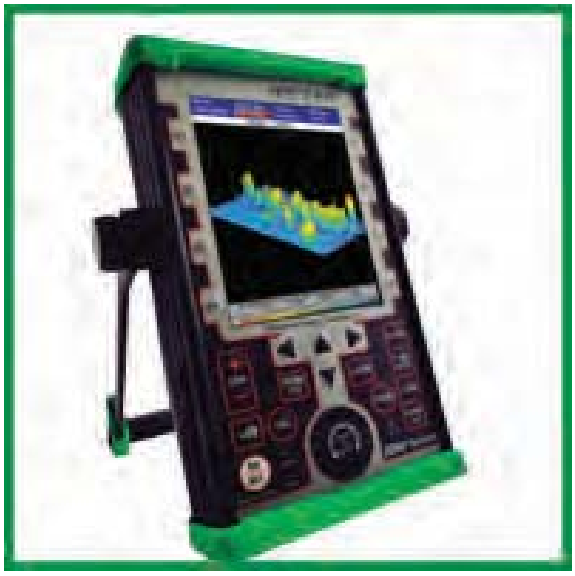
เครื่องวัดความหนาระบบ อัลตร้าโซนิค

Applications

- Flaw detection and thickness gauging in most materials
- Corrosion mapping on pipes, tanks, vessels
- A-, B-, C-csan imaging
- Composite Inspection using thickness or amplitude flaw gates

Features

- All-in-one high-resolution, high-speed, flaw detector, thickness gauge and B-, C-scan imaging system
- Robust alumium case with rabber end caps
- 5.7" VGA sun readable Color display
- Spike and square wave tuneable pulser, 500Hz PRF
- Compatible with range of manual and automatic scan-ners for encoded B-scan and C-scan imaging



HIGH PERFORMANCE IMAGING FLAW

SPECIFICATION

Physical	Package Includes	Standard package includes Reptor instrument, Pellcan style shippng case, manual, battrry, AC charger (110-240V) and Calibration Certificate
	Dimensions	5.75 x 9.50 x 3.00 in (146 mm x 241mm x 76mm)
	Weight	5.6lb (2.54kg) including battery
	Case Construction	Alumium body, rubber end caps
	Operating Temperature	15'F to 122 'F (-10 C to 50 C
Display	Type	Sun readble Color VGA
	Size	50Hz, 640 x 480 pixels, 3.40 x 4.55in (86 x 116 mm)
Measurements	Resolution	0.001 in (0.0025mm)
	Thickness Range	0.010 in. to 400 in. (0.254mm to 10.160 mm)
	Velocity Range	0.0490 to 0.9999 in /us 1.24 mm to 25.4 mm us)
	Display modes	RF, +HW, -HW, FW filled or outlined

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