

Thickness measurement

MiniTest 406



- Precision Ultrasonic Micrometer
- Rugged Quality Tool for rough industry conditions
- Highly damped dual-element Transducer
- Pulse-Echo Mode (Pit & Flaw Detection) from 0.63 to 500 mm
- Echo-Echo Mode (Through-Paint & Coatings) from 2.54 to 25.4 mm

Measures through painted or coated materials!

MiniTest 406 – Versatility and Convenience

ElektroPhysik has succeeded in adding the final touches to the rugged MiniTest 403/405 line with the new multi-mode MiniTest 406. This thickness gauge not only combines all the durability and features of the 403/405 line but also offers the ability to measure through painted or coated materials and eliminate the thickness of the paint or coating with the single press of a button.

Equipped with an extruded aluminum case with nickel-plated aluminum end caps and a sealed keypad membrane, the gauge is suitable for harsh working conditions and is resistant to both water and petroleum products.

The small and portable unit typically operates for 200 hours on alkaline and 130 hours on NiCad cells. You can take it anywhere to do the job.

Multi-Mode

Pit & Flaw Detection and Through Paint & Coatings: In order to inspect for blind wall pitting and internal flaws, conveniently toggle between echo-echo (thru-paint & coatings), and pulse-echo (locate flaws & pits), to cover all your inspection needs. The MiniTest 406 uses a highly damped dual element transducer for both modes, eliminating the need to switch between transducer types.

Internal data logger

Automatic numeric Data Logging system to store 1 to 1000 readings. OBST symbol to indicate no reading.

Alarm mode

Enter a minimum acceptable thickness value. If measurement falls below minimum, red LED will illuminate and sound beeper. If measurement is above minimum value, green LED will illuminate.

Data output

RS232 output sends data to a serial printer, a computer or other external storage device.

Technical Data

Measuring range	
Pulse-Echo Mode:	0.63 to 500 mm / 0.025 to 19.999 inches in steel, depending on material and surface
Echo-Echo Mode:	2.54 to 25.4 mm / 0.1 to 1 inch
Resolution:	0.01 mm / 0.001 inch
Velocity range:	1250 to 10,000 m/sec / 0.0492 to 0.3937 inches/ μ s
Measuring rate:	4 readings per sec. for single point measurements or 16 per sec. in Scan Mode – captures the minimum thickness
Calibration:	Single and two point calibration option included
Weight:	284 g / 10 ounces (with batteries)
Size:	approx. 64 x 115 x 32 mm / 2.5 x 4.5 x 1.24 inches / (W x H x D)
Operating temperature:	-30° to 50°C / -20° to 120°F
Case:	extruded aluminum body with nickel-plated aluminum end caps (gasket sealed)
Keypad:	Sealed membrane resistant to both water and petroleum products. Nine tactile-feedback keys.
Transducer:	Dual-element (transmit and receive) 1 to 10 MHz frequency range. Locking quick disconnect LEMO connectors. 4 foot cable. Custom transducers available for special applications.
Power source:	2 x 1.5 V alkaline or 1.2 V NiCad AA cells. Typically operates for 200 hours on alkaline and 130 hours on NiCad. Display flashes when battery is low. Unit turns off automatically when battery is too low to operate reliably.
Display:	Multi-function 4.5 digit liquid crystal display with 0.500 inch numerals, backlit for use in poor light conditions. Backlight is selectable on / off / auto (illuminates only when taking a measurement). Bar graph indicates stability of reading.
Data output:	RS232 output sends data to a serial printer, a computer or other external storage device.
Internal data logger:	Automatic numeric Data Logging system 1 to 1000 readings



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