



Advancing with Technology

ElektroPhysik

## Thickness measurement

## MiniTest 403/405



- Precision Ultrasonic Micrometer
- Rugged Quality Tool for rough industry conditions
- Dual-element Transducer
- Measures various materials from 0.63 to 500 mm (0.025 to 19.999 inches)
- Switch to select English or metric units
- Internal Data Logger (MiniTest 405)

**High-speed scan!**

Supplied by :

**Test and Measurement Instruments C.C.**

[www.instrumentsgroup.co.za](http://www.instrumentsgroup.co.za)

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## MiniTest 403 / 405 Series – The standard has been set!

ElektroPhysik's rugged thickness gauge family has been designed and built to satisfy the roughest industry conditions. The variety of features offered in the MiniTest 403 and MiniTest 405 allow the user to select a quality tool that will meet or exceed their specific application needs.

The gauges come in an all metal case and are sealed with gaskets to

protect them from harsh working environments. The units are small and portable and will operate on 2 AA batteries for over 200 hours. You can take them anywhere to do the job.

**MiniTest 405 – Gauge with Internal Data-Logger:** Automatic numeric data logging system to store 1 to 1000 readings. **OBST** symbol to indicate no reading.

**Differential Mode:** Enter acceptable thickness value, unit will display +/- the difference from the value entered.

**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.

Technical data	
Measuring range:	0.63 to 500 mm / 0.025 to 19.999 inches in steel, depending on material and surface
Resolution:	0.01 mm / 0.001 inch
Velocity range:	1250 to 10,000 m/sec / 0.0492 to 0.3937 inch/ $\mu$ s
Measuring rate:	4 readings per sec. for single point measurements or 17 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:	64 x 121 x 32 mm / 2.5 x 4.75 x 1.25 inches / (W x H x D)
Operating temperature:	-30° to 50°C / -20° to 120°F
Case:	Extruded aluminium body with nickel-plated aluminium end caps (gasket sealed)
Keypad:	Sealed membrane resistant to both water and petroleum products. Six or 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).
Data output (available with MiniTest 405 only):	RS 232 output sends data to a serial printer, a computer or other external storage device.



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