

Толщиномеры серии MG

Технические характеристики

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WATERPROOF COATING THICKNESS GAUGE MG-105

A pocket size meter of high accuracy, designed for field work.

Depending on the chosen type of the measuring head the meter may be used for measurements of the layer of lacquer, varnish, foil, plastic etc. laid on ferromagnetic surfaces like steel - with head **GG-105**. Or laid both on ferromagnetic (steel) and not ferromagnetic (aluminium) surfaces with head – **GG-105a**.

MG-105 may also be used for the car body controlling, determining the thickness of the varnish (lacquer) and finding the repaired places.

Characteristic features:

- The result is displayed in μm .
- Sound confirmation of the result stabilisation.
- Automatic hold function – freezes the measured result till moment of performing the next measurement.
- Possibility of 0 point calibration on “clean” surface - without any layers on it.
- The meter is ready to work without any preparation.
- Waterproof housing, enables work even during rain.
- Automatic switch off function protects the batteries against discharging.
- Battery powered.
- Warranty: 24 months.

The meter is not suitable for continuous work during production processes.



TECHNICAL DATA

Range	Resolution	Accuracy (± 1 digit)	Weight/ Power	Dimensions
0 ÷ 1200 μm	1 μm	on steel $\pm 3\% \pm 2 \mu\text{m}$ on aluminium $\pm 5\% \pm 2 \mu\text{m}$	50g Batteries 3 x LR44	L=145 mm $\Phi=26$ mm

WATERPROOF PRECISE COATING THICKNESS GAUGE MG-401

Designed for precise measurements of non-magnetic coating on ferrous surface, e.g. lacquer on steel or plastic on steel.

MG-401 may also be used for precise steel car body controlling, determining the thickness of the varnish (lacquer) and finding the repaired places.

Characteristic features:

- **MG-401** ensures fast stabilisation of readings.
- The result of the measurement is displayed in μm or mils (1/1000 inch).
- The meter is equipped with a large, easy-to-read backlight LCD display with brightness control.
- HOLD" function to freeze the result on the display.
- Signalisation of the result stabilisation with the "READY" symbol and a sound.
- Possibility of sending a calibration report to a PC - up to 10 last calibrations.



- High accuracy is ensured by very precise manufacturer's calibration of the probe.
- In case of unusual thickness of the basis, the user's calibration on freely chosen thickness points is possible.
- Memory of 3 characteristics of user's calibration.
- Alarm function enables setting maximal and minimal value. Exceeding of these values is signalised on the display.
- Possibility to read the maximal, minimal and average value out of stored results.
- Minimal diameter of a pipe with a measured varnish: 2,5 cm (after special preparation of the sensor).
- Built in clock with date.
- Internal datalogger enables storing up to 4000 measurements with time and date.
- The meter has a non-volatile memory.

WATERPROOF PRECISE COATING THICKNESS GAUGE MG-405

Designed for precise measurements of varnish coating thickness, plastics - isolating layers or galvanic layers on steel, aluminium, brass or copper.

It may also be used for precise car body controlling, determining the thickness of the varnish (lacquer) and finding the repaired places.

Characteristic features:

- The meter is equipped with a large, easy-to-read backlight LCD with brightness control.
- Two ways of measurement:
 1. Non-magnetic coating on magnetic surface
 2. Isolating coating on conducting surface.
- One probe enables measurements on various surfaces.
- Automatic detection of the surface type.
- In case of varnish (paint) measurement on galvanised surface, there is a possibility of measurement of varnish coating thickness together with the zinc coating thickness or only of the varnish coating, thanks this it is possible to calculate the zinc coating thickness.
- The result of the measurement is displayed in μm or mils (1/1000 inch).
- "HOLD" function to freeze the result on the display.
- Signalisation of the result stabilisation with the "READY" symbol and a sound.
- Possibility of sending a calibration report to the PC - up to 10 last calibrations.
- High accuracy is ensured by precise calibration and storing of the probe characteristics in the product's memory.
- In case of unusual thickness of the surface 3 point calibration on freely chosen thickness samples is possible.
- 3 characteristics of calibration can be stored in the meter's memory.
- There is a possibility to set a maximal and minimal value, exceeding of them is signalised on the display.
- Maximal, minimal and average values of measurements can be read from the stored results.
- Minimal diameter of a pipe with a measured varnish: 2,5 cm, after special preparation of the sensor.
- Waterproof housing IP-66
- Built in real clock and date function.
- Internal memory up to 4000 results with time and date.
- Possibility of connecting with a PC by micro USB connector.
- Powered by rechargeable batteries or power adapter with USB - micro USB cable.
- 24 months warranty.



Technical Data

Range	Resolution	Accuracy (± 1 digit)	Weight	Power	Dimensions (mm)
$0 \div 1999 \mu\text{m}$ $0 \div 80 \text{ mils}$	$0.1/1 \mu\text{m}$ $0.01 / 0.1 \text{ mils}$	Ferromagnetic basis $\pm 1\% \pm 1 \mu\text{m}$ $\pm 1\% \pm 0.03 \text{ mils}$ Non ferromagnetic basis $\pm 1\% \pm 2 \mu\text{m}$ $\pm 1\% \pm 0.06 \text{ mils}$	330 g	2x 1.5 V rechargeable batteries 5 V power adapter	L = 149 W = 82 H = 22

WATERPROOF COATING THICKNESS GAUGE MG-411

Used for accurate measurements of non-magnetic coating on ferrous surfaces. It is used for measurement of varnish (paint) layers, isolating – anti-corrosion coatings or plastic layers laid on steel basis.

It may also be used for the measurement of zinc coating laid on steel surface.

MG-411 may also be used for precise steel car body controlling, determining the thickness of the varnish (lacquer) and finding the repaired places.

Characteristic features:

- **MG-411** now ensures fast stabilisation of readings.
- Stabilisation of reading is confirmed by a sound signal.
- Large, easy-to-read LCD.
- Automatic "HOLD" function to freeze the result.
- Waterproof housing IP-66.
- The result is displayed in μm .
- Enables user's calibration on the surface without coating (0 point) and with freely chosen thickness standard.
- Minimal diameter of a pipe with a measured coating: 2,5 cm (after special preparation of the sensor).
- Automatic switch off function to save the battery.
- Two kinds of power source: 9V battery or power adapter (optional).
- Memory of 50 results.
- 24 months warranty.



Range	Resolution	Accuracy (± 1 digit)	Weight	Power	Dimensions (mm)
0 ÷ 1999 μm	1 μm	$\pm 2\% \pm 2 \mu\text{m}$	280 g	Battery 9V, Pow. adapter 12 V	L = 149 W = 82 H = 22



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