OKTANTA

Design and manufacture of
non-destructive testing equipment

EM4000
Mini thickness gauge with coating thickness measurement ability*



* A pocket-size thickness gauge. Working with A-scan on the display is implemented.

Application of EM4000:





Designed for thickness measurement on steel pipes, sheet metal, rods, and other products made from steel, aluminum and other metals, with a operating gap of up to 3 mm between the sensor and metal.

Operation of the EMA thickness gauge requires no preliminary surface preparation, no couplant is required. The gap can consist of dirt, layer of rust, layer of salt deposits or other non-conductive coating (paint, varnish, enamel, plastic, etc.). In addition to measuring metal thickness, the EM4000 allows measuring thickness of non-conductive coating on metal.

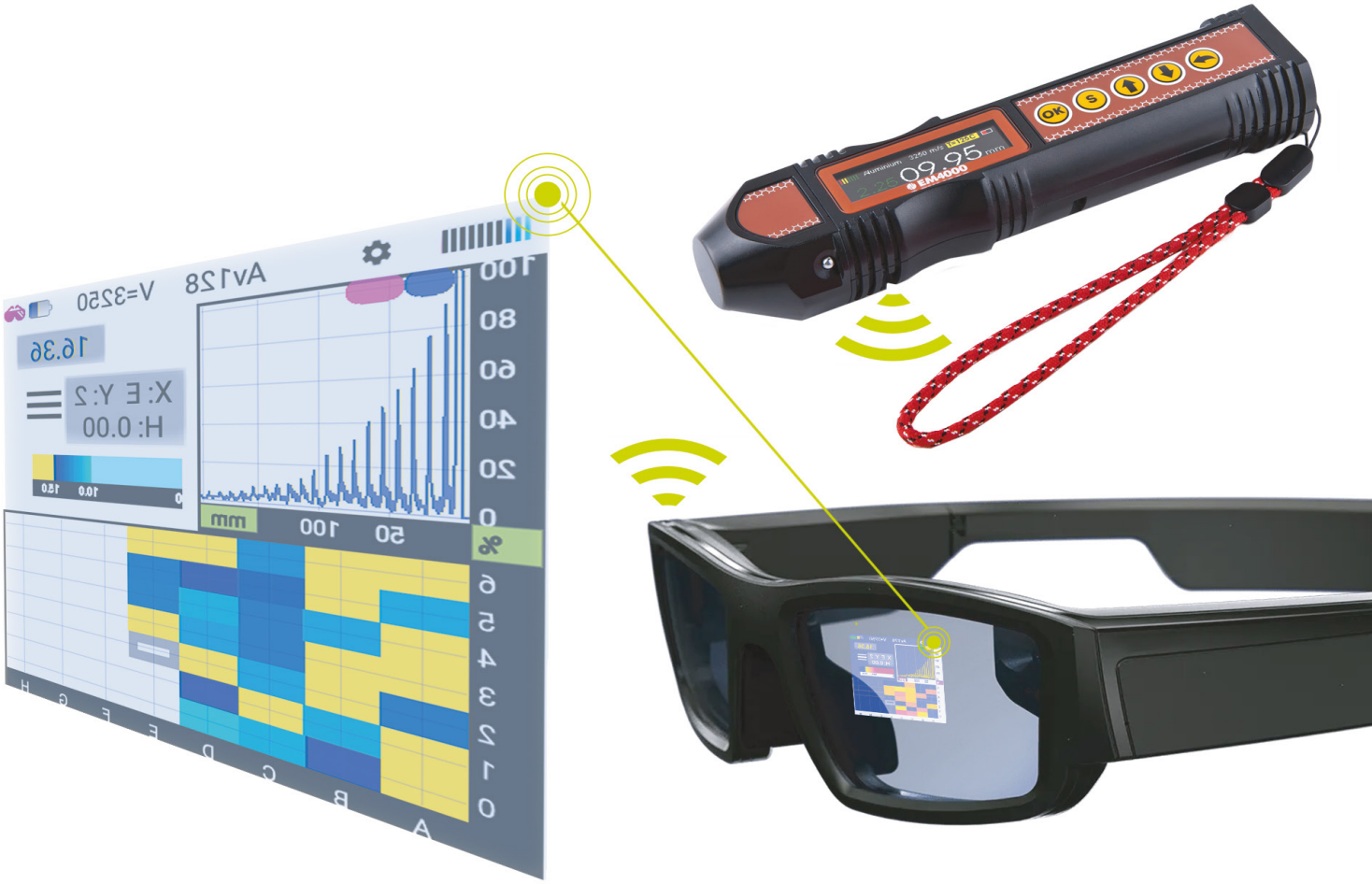


EMT40004T

A **special sensor** allows using the EM4000 thickness gauge for thickness measurements on objects heated up to 750 °C.

Features:

- Improved characteristics, the range of measured thickness is from 2 to 200 mm;
- The duration of continuous work without battery recharge is 7 hours;
- Requires no preliminary surface preparation or couplant;
- The gap can consist of dirt, rust, salt deposits, paint, varnish, enamel, plastic or other non-conductive coating;
- Measures both the metal thickness and the coating thickness;
- Compact (dimentions: 122 x 231 x 42 mm);
- Can be connected to a tablet, a smartphone or other OS Android device;
- Connects to EMT40004T high-temperature sensor that provides **thickness measurement on hot objects heated up to 750 °C**

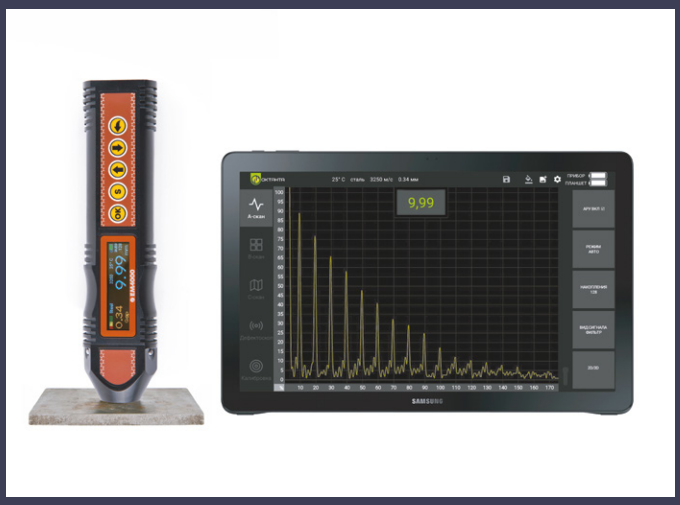




EM4000 thickness gauge can be supplemented with **wearable smart glasses** upon your requst. **Wearable smart glasses** allow using EM4000 EMA thickness gauge in hard-to-reach places, where display readouts are impossible or difficult. In this case the readouts are displayed on the lenses of the smart glasses and the operator can always see them.

EM4000 specifications

Range of measured thickness for steel	2...200 mm
Thickness measurement error in the range 2...25 mm	0.08+0.001·H mm
Thickness measurement error in the range 25...200 mm	0.1+0.005·H mm
Permissible gap between the sensor and tested object (with EMT14012)	up to 3 mm
Range of measured thicknesses for non-conductive coatings	0...4 mm
Measurement error for non-conductive coating thickness	0.1 mm ±3%
Permissible sensor skew	± 25°
Lowest permissible radius of curvature of the tested object surface	10 mm
Highest number of measurements per second	4
Range of sound velocity setting	1000...9999 m/s with 1 m/s step
Operating frequency of the device	4 MHz
Duration of continuous work without battery recharge	7 hours
Range of operating ambient temperature	-20...+50 °C
Range of operating temperature on the tested object surface	-20...+80 °C (-20...+750 °C with EMT40004T)
Dimensions	185 x 43 x 35 mm





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