OKTANTA

Design and manufacture of
non-destructive testing equipment

EM5000
Mini EMA Thickness Gauge with Pulsed Electromagnet Transducer*



*Dirt does not stick to the surface of the transducer with a pulsed electromagnet.

Application of EM5000:





To operate the EMA thickness gauge, no preliminary surface preparation is required and no couplant is required.
The EM5000 operates through a non-conductive coating layer up to 5 mm thick. The EM5000 measures metal thickness through dirt, a layer of rust, a layer of salt deposits, paint, varnish, enamel, plastic, etc.

When the EM5000 operates with a transducer with a pulsed electromagnet, dirt and rust do not stick to the surface of the transducer and do not interfere with the operation of the device, making the measurement process more comfortable.

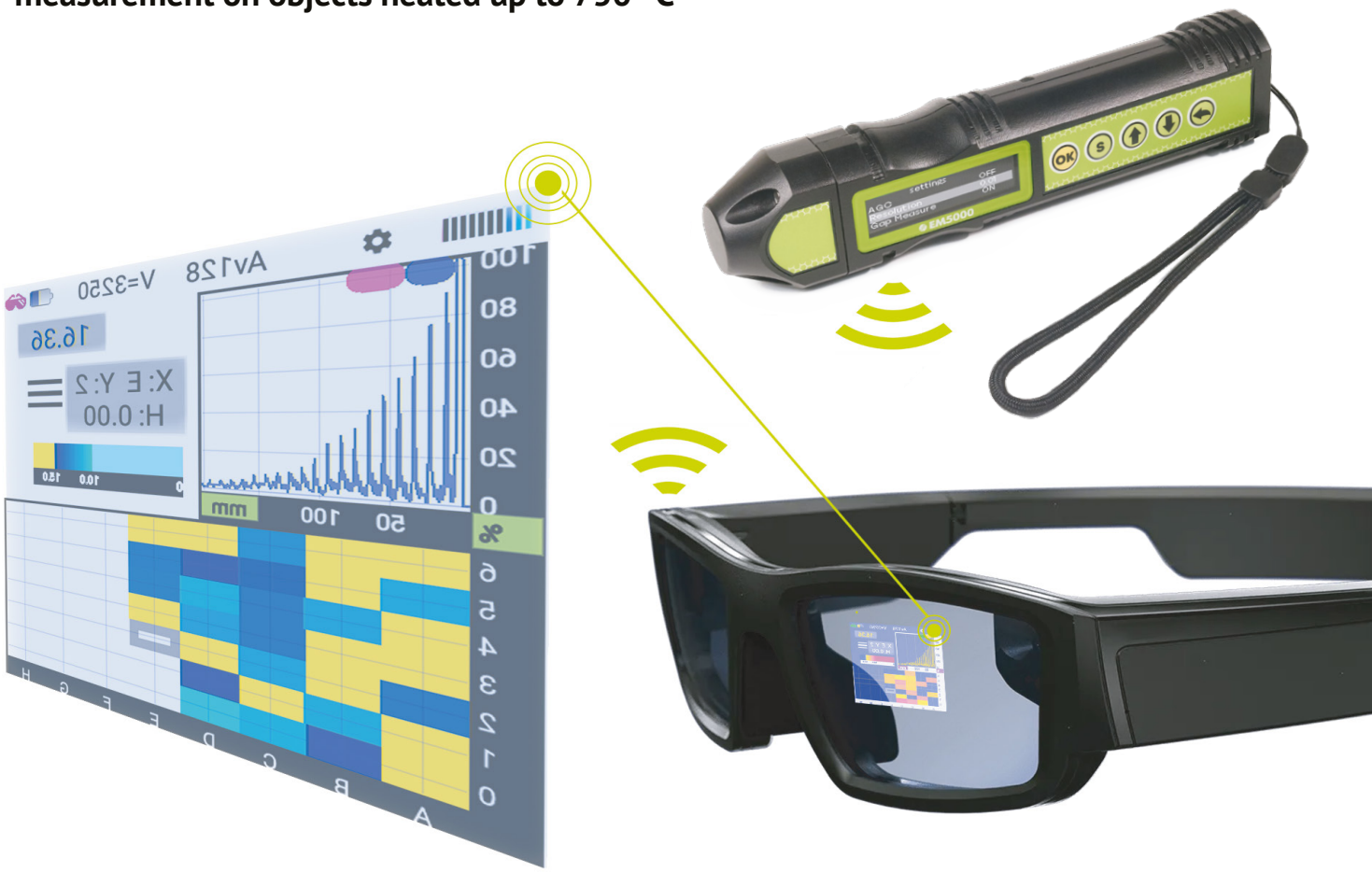


EMT50004T

The special EMT50004T transducer allows using the EM5000 thickness gauge for thickness measurement on objects heated up to 750 °C.

Features:

- Operates with both standard EMA transducers with a permanent magnet and transducers with a pulsed electromagnet
- Increased range of measured thicknesses for steel (without gap): 2...600 mm
- **Removable standard 18650 battery** that can be quickly replaced in the field
- The duration of continuous operation without recharging the battery is 5 hours
- Operates without preliminary surface preparation and couplant
- Measures through dirt, rust, salt deposits, paint, varnish, enamel, plastic and other non-conductive coatings
- Compact (dimensions: 200 x 50 x 43 mm)
- Connects to a tablet, a smartphone or other Android device with **ScanView application** to expand the capabilities of the thickness gauge
- Connects to EMT50004T high-temperature transducer that provides **thickness measurement on objects heated up to 750 °C**

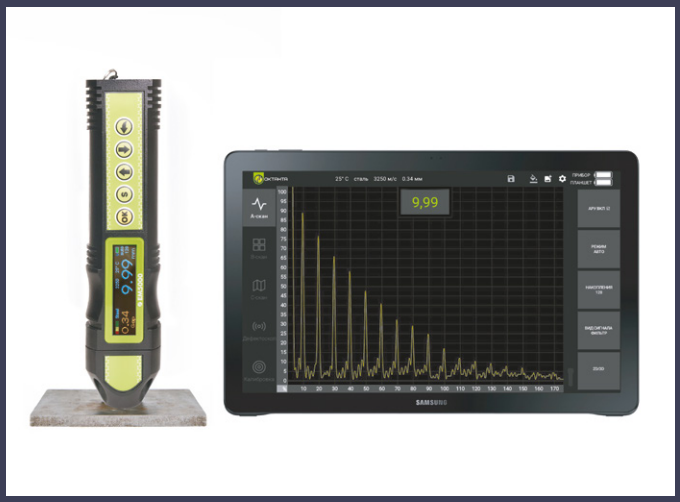




At your request, the EM5000 thickness gauge can be supplied with **AR glasses** with the **ScanView application** installed. The **AR glasses** allow you to use the EM5000 in hard-to-reach places where seeing the readings from the device display is impossible or difficult. In this case, the readings are displayed on the lenses of the glasses, and the operator can always see them.

EM5000 specifications

Range of measured thickness for steel	2...600 mm
Thickness measurement error 2..25 mm	0.08+0.001·H mm
Thickness measurement error 25..600 mm	0.1+0.005·H mm
Permissible gap between the transducer and the object (EMT50001)	to 5 mm
Permissible transducer skew	± 25°
Lowest permissible radius of curvature of the tested object surface	10 mm
Highest number of measurements per second	16
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	5 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 EMT50004T)
Dimensions	200 x 50 x 43 mm





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