



OKTANTA



Design and manufacture of
non-destructive testing equipment

EM5000 Mini thickness gauge with the pulsed electromagnet probes*



*Dirt does not attract to the surface of the probe.

Application of EM5000:



Designed for thickness measurement on steel pipes wall, flat steel, steel flat bars or steel sheets, aluminum and other metals, with a operating gap of up to 4 mm between the sensor and metal.

Dirt does not attract to the surface of the pulsed electromagnet probe.

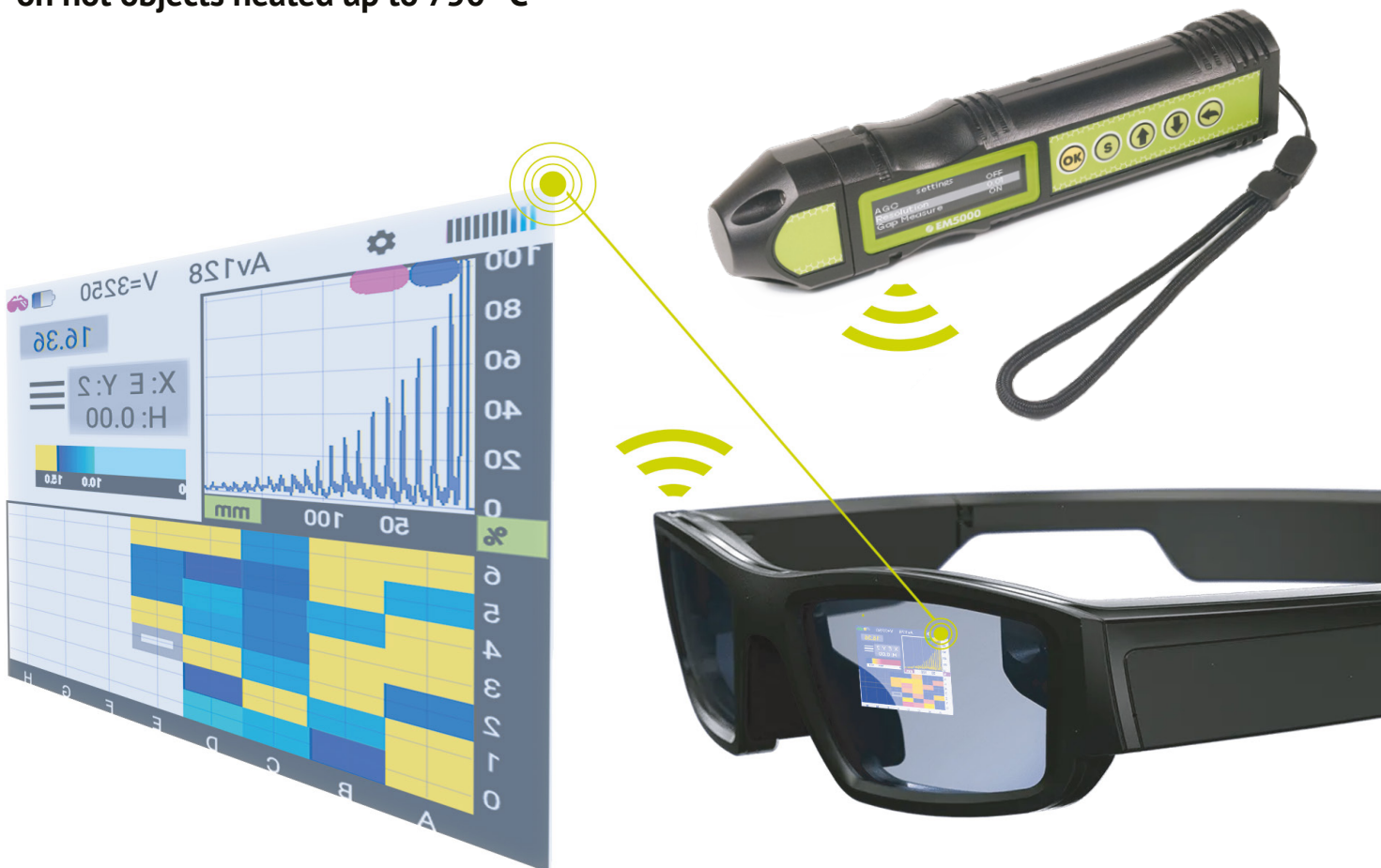
The device implements a special algorithm that takes into account changes in the rate of sound velocity induced by temperature.



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

Features:

- Removable pulsed electromagnet probe which can be replaced with standard EMA transducer;
- Improved characteristics, the range of measured thickness is from 2 to 600 mm;
- **Removable standard 18650 battery**, that can be quickly replaced in the fields;
- The duration of continuous work without battery recharge is 5 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;
- Compact (dimensions: 185 x 43 x 35 mm);
- Can be connected to a tablet, a smartphone or other OS Android device with ScanView application;
- Connects to EMT50004T high-temperature sensor that provides **thickness measurement on hot objects heated up to 750 °C**



EM5000 thickness gauge can be supplemented with **wearable smart glasses** upon your request. **Wearable smart glasses** allow using EM5000 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.

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 sensor and tested object	0...4 mm
Permissible sensor 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	185 x 43 x 35 mm



Contacts:

Saint Petersburg, Russia,
Olga Bergholz st. 34
oktanta-ndt.ru

+7(812) 385-54-28
info@oktanta-ndt.ru