

## KIM-2M

### New hand-held instrument for coercive force measurement



Instrument is designed for non-destructive quality control of heat treatment, surface impregnation, thermomechanical treatment and also can be used for hardness measurement and mechanical properties determination of ferromagnetic materials, if there is correlation between test values and measurement values.

- Continuous measurement of residual magnetization
- Magnetization of the tested material by 250V pulses
- Adjustable quantity of pulses
- Automatic sound alarm signal
- Memory for storage of 5000 measurement results
- Selective averaging up to 99 results
- Viewing results on display or data transfer to PC
- 10 additional scales programmable by PC or direct from keypad
- Powered by 220V plug-in power supply or 8 AA-sized batteries
- Weight: 1.2 kg with batteries

## Available Accessories:

- Plug-in power supply unit 220V
- Batteries and Battery Charger
- Detachable transducer pole pieces
- PC cables and Software
- Soft Carry case
- Transport case

## Specifications:

### Base-line measurement values

- coercive force;
- residual magnetic induction at partial demagnetization;
- residual magnetization

Coercive force measurement range  
150 - 5000 A/m

Magnetization  
by 250V pulse; pulses quantity can adjust from 0 to 10

Demagnetization  
by preset current 0-1000 mA in steps of 1 mA

Measurement time  
15 s (at 3 magnetization pulses)

Transducer  
with striding electromagnet and detachable pole pieces

Scales  
10 programmable direct from keypad or by PC scales, up to 10 points for linear approximation

Indication accuracy  
1, 0.1, 0.01 or 0.001 is set at programming

Memory  
Storage of 5000 test results with ability their transfer to PC

Data handling  
Selective averaging up to 99 results direct in instrument and special software for data processing by PC

### Automatic Sound Alarm

Automatic alarm system with a sound signal and display message when an measurement value exceeds the preset bounds

Interface  
RS 232 C

Batteries  
8 AA cells (NICAD or NIMH)

Mains power  
via external plug-in power unit (220V AC)

Operating voltage  
9-12 V DC

Operating Time  
Approx. 5 hours with 1.6 Ah cells

Operating temperature  
+5 °C to +50 °C

Dialog languages  
Russian or English (in order)

Dimensions (H x W x D)  
Base Unit: 205 mm x 115 mm x 50 mm  
(8 inch x 4.6 inch x 2 inch)  
Transducer: 60mmx75mmx35mm  
(2.4 inch x 3 inch x 1.4 inch)

Weight  
1.2 kg; with batteries