



**NOVOTEST**  
QUALITY TESTING DEVICES

# Steel Structure Analyzer NOVOTEST KRC-M2

Steel Structure Analyzer NOVOTEST KRC-M2 is a device for non-destructive testing of chemical-thermal, thermal and thermomechanical treatments, evaluation of mechanical properties and residual stresses.



## The advantages of NOVOTEST KRC-M2:

- ✓ The probe with optional display and buttons control of the main functions
- ✓ Averaging 99 results, with the possibility to use the predictive average
- ✓ Real-time clock – each measurement is saved with the date and time
- ✓ Ability to enter additional scales and additional materials for calibration
- ✓ Calibration mode of basic and additional scales
- ✓ Memory: up to 100,000 measurements with the ability to view them on the screen of the device, or transfer to a PC
- ✓ Adjust the brightness of the display, audio, language selection
- ✓ Ability to save backups calibrations on the internal memory of the device
- ✓ Smart sensors with built-in memory of calibrations

The main use of the Steel Structure Analyzer NOVOTEST KRC-M2 is control of the stress-strain state and residual life of pipelines, elevators, cranes and lifts, pressure vessels, as well as the traditional control engineering and metallurgical products.

## Specifications of NOVOTEST KRC-M2

Standard modes	Measurement of coercive force Current measurement Code measurement (units) Additional scale for calibration
The measuring range of the coercive force, A/cm (A/m)	1-40,0 (100-4000)
Measurement cycle, seconds, not more	5
Magnetize	pulse
Additional scale for calibration	7
Power	Li-Ion batteries
Battery life, h, no less	8
Dimensions of the electronic unit, mm	250x150x50
Dimensions of the probe, mm	200x170x70

Steel structure analyzer provides identification and measurement of mechanical properties of metal hardness, as well as measurements of products from ferromagnetic alloys in the presence of correlations between the studied parameters.

In addition, the device is used for testing the surface layer of ferromagnetic material for grading the metal in steel grades.

## Standard set of NOVOTEST KRC-M2

- ✓ The electronic unit
- ✓ Cable for PC connection
- ✓ Operating manual
- ✓ Probe
- ✓ Software for PC
- ✓ Case (package)
- ✓ AC adapter / charger

## Available options for ordering of NOVOTEST KRC-M2

- ✓ Probe
- ✓ Cable for PC connection
- ✓ AC adapter / charger
- ✓ Case (bag)

# Gaussmeter (Magnetometer) NOVOTEST MF-1



Gaussmeter (magnetometer) NOVOTEST MF-1 is designed for rapid non-destructive testing and allows:

- ✓ magnetic field analysis of ferromagnetic products and during magnetic particle inspection;
- ✓ measure levels of industrial noise;
- ✓ define a technical characteristics of equipment for MPI according to requirements of normative and technical documentation;
- ✓ measure the level of remanent magnetization of products after MPI;
- ✓ measure magnetic induction of the various components, devices, products, etc.

## Specifications of Gaussmeter NOVOTEST MF-1

The measurement range, Gauss (G)	$\pm 100$ ; $\pm 1000$ or $\pm 2500$
Read ability reading on the digital display, G	0.2; 2.0 or 5.0
Response time, no more, s	1
Measurement accuracy, G	$\pm (0,002 N)$
Dimensions, mm	120x60x25
Operating temperature, °C	-5 to +40
Power supply	2 AAA batteries
Batteries life, h, not less	10
Weight of electronic unit with batteries, kg, no more	0.2

## Standard set of Gaussmeter NOVOTEST MF-1

- ✓ The electronic unit
- ✓ 2 batteries (AAA)
- ✓ Operating manual
- ✓ Sensor (probe)
- ✓ Charger
- ✓ Case

## Available options for ordering of Gaussmeter NOVOTEST MF-1

- ✓ Sensor (probe)
- ✓ Batteries
- ✓ Charger
- ✓ Case

# Magnetic Flaw Detector NOVOTEST MPD-DC

Magnetic Flaw Detector NOVOTEST MPD-DC is used to detect surface and subsurface cracks of all kinds (flake, lack of fusion welded joints, tears etc.) in structures made of ferromagnetic materials.

In the case of the ban regulations of the equipment with power supply, or difficulties with its supply, Magnetic Flaw Detector NOVOTEST MPD-DC is the only one instrument for the required testing.

Magnetic flaw detector is based on the method of non-destructive testing used for detecting violations of the magnetic surface of metal structures and structures of ferromagnetic materials.

The device has two permanent magnets placed in a cylindrical shells, which are connected by a flexible magnetic wire, so it can be used for MPI of remote locations, corner welds and other products of various shapes and sizes.



## Specifications of Flaw Detector NOVOTEST MPD-DC

Magnetic field strength at the center of the air gap between the poles	200 kA / m
Magnetic field strength in the air at the middle region between the working ends of the magnet, not less	65 kA / m
Interpolar distance	80 mm
Weight of the device, not more	1 kg
Dimensions – cylindrical – flexible magnetic core	60x120x360 mm

## Standard set of Flaw Detector NOVOTEST MPD-DC

- ✓ Magnetic Flaw Detector
- ✓ Operating manual
- ✓ Case

## Available options for ordering of Flaw Detector NOVOTEST MPD-DC

- ✓ Magnetic flaw detector; set of materials for magnetic particle inspection; magnifying glass; flashlight.
- ✓ Magnetic flaw detector; set of materials for magnetic particle inspection; magnifying glass; flashlight and control sample for the MPI.