

MagStress5c

FIFTH GENERATION STRESS METER



“ We've created a fifth gen. meter, which is the first in the world able to determine the stress state in just a few seconds.

Boleslaw Augustyniak,
PhD, DSc, CEO of NNT Sp. z o.o.



DEVICE'S MAIN FEATURES

MagStress5c is a device that can be used in many industries for instant diagnostics of the state of stress in elements and structures with ferromagnetic properties.



POWER
ENGINEERING



OFFSHORE
INDUSTRY



OIL AND GAS



RAW
MATERIALS



FABRICATION

Compared to competing solutions, MagStress5c has an advantage on many levels, which can include:

- Full personalization for customer needs
- Quick and easy determination of stress (testing time of a few seconds)
- Weatherproof
- Display of stress value directly in MPa
- Touchscreen
- The possibility of testing through paint and coatings
- Long-term autonomous work

The method of determining stress state in steel elements with ferromagnetic properties using the Barkhausen effect (BE) is recognized by the Office of Technical Inspection and the Polish Register of Shipping.



LBU-313

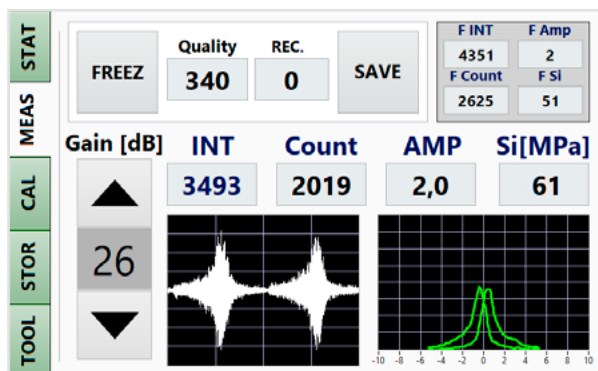


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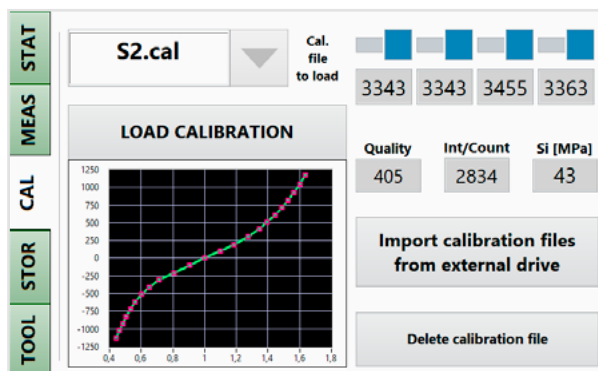
FUNCTIONALITIES



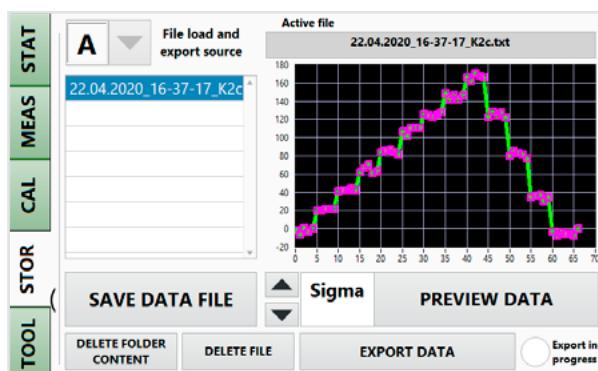
The many years of scientific experience of the NNT company founders and good relations with our business partners from Poland, the United States, Japan and Australia have resulted in the creation of functionalities that are necessary today for advanced preventive diagnostics of steel elements.



The MagStress5c device magnetizes the tested material locally and analyzes in real time the electromagnetic signals associated with the dynamic magnetization of the examined object recorded by the probe. The effect of this analysis are the parameter values (INT, Count), which are directly related to the level of deformation in the surface layer of the steel.



The relationship between the value of a given parameter and the deformation level is stored in the meter memory in the form of a calibration function. Calibration functions are determined experimentally for reference samples in the field of elastic deformations. The displayed stress value is calculated directly from the deformation value.



MagStress5c saves the results of measurements made for subsequent points to the file, and also allows control preview of changes in the registered parameter. The device has the potential to implement a reporting system tailored to customer requirements.

TECHNICAL AND COMMERCIAL INFORMATION

Basic technical parameters of the device:

POWER SUPPLY	100-240 V 50/60 Hz
WORKING TIME ON BATTERY SUPPLY	3h
DISPLAY	TFT 5", 800 x 400 px
DIMENSIONS	315 x 165 x 95 mm
WEIGHT	3 kg
CONTENTS OF THE SET	Central unit, measuring head, charger with power supply, power cables, ground cable, transport box

The testimonies of our customers are the best proof of the quality of our products:

- “ *With great hope I observe the achievements of NNT as a Polish company that produces world class diagnostic equipment.*
Zbigniew Kowalewski, BEng, PhD, DSc, ProfTit - Institute of Fundamental Technological Research of the Polish Academy of Sciences
- “ *NNT is a competent and recommendable partner in the field of stress tests in industrial conditions.*
Tadeusz Waszkiewicz - Development and New Technologies Division - CRIST S.A.
- “ *I am very impressed with the technological progress that NNT has achieved in such a short time.*
Greg S. Rowe - CEO of Martrow Technical Products LLC & Martrow Technical Innovations LLC
- “ *Innovative probing conducted by NNT is a good opportunity to improve production processes.*
Tomasz Zajac - Research and Development Director - Valmont Polska Sp. z o.o.

If you have questions or need more detailed information, please contact us.



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