ELOTEST \ M6

▷ Inspiring ▷ compact ▷ smart ▷ innovative ▷ ergonomic
The new world of Eddy current testing

ELOTEST \ M6

This innovation has come full circle in a historic sense.

The Rohmann success story started in 1977 with the hand-held ROTOTEST and is now continuing with the new ELOTEST M6. The digital single hand test instrument stands out due to the excellent quality of its signals. The new hand-held ELOTEST M6 makes an impression thanks to an integrated C-Scan function for array probes and rotor applications. It is the first hand-held device, which provides an analysis of the harmonic wave for testing metallic materials for changes in the microstructure, hardness and strength.

The software — user-friendly, innovative, selectable in "Dark Mode" or "Light Mode"

▷ 7", 3-fold multi touch display, which can be operated with gloves

▷ Testing, documenting and reporting directly on site

▷ Recording of audio comments and text memos

▷ Flexibly markable testing timeline of the signal

▷ Replaceable probe adaptor for the use of external probes

▷ "RohmannAccessory Bus" sensor bus for connecting intelligent sensors, rotors and array probes

▷ C-Scan recorder for array probes and rotor applications

▷ 2 frequency operation with mixing functions

▷ Analysis of the harmonic wave for testing microstructure and material characteristics

▷ The software boots within seconds

ELOTEST M6 — Application examples

With the ELOTEST M6, you hold the most innovative hand-held test instrument in its class in your hands. Whether it is used horizontally as a desktop device or vertically as a hand-held device, it offers complete flexibility in one instrument. Right-handed or left-handed — any personal habit of the user is considered.

The 7" touch screen provides you with a comprehensive and flexible overall view of your testing results. The 3-fold multi touch is in step with the times and the test instrument can be operated in any situation.

The test instrument is, of course, equipped with reference standards. According to the testing requirements, reference parts can be exchanged for individual needs

Application on an aircraft

Protection class IP67 makes ELOTEST M6 best suited for offshore operation.

ELOTEST M6 makes it possible to test directly on site and to view the reports immediately.

Portable state-of-the-art
Eddy Current testing with ELOTEST M6

256 SENSORS

Multiplex of 256 sensors max., for example with the latest array technology and with an external Mini-Mux integrated in the sensor. C-Scan display for array probes and rotor applications.

7 INCHES

Touch display — can be operated intuitively, even when wearing work gloves. An test instrument that does not require any keys. User-friendly software. Can be directed vertically or horizontally for flexible applications. Can be operated with the right or with the left hand.

IP 67

The device is dustproof and to a limited extent waterproof. It has the corresponding IP protection class so that it can be temporarily immersed in water to a maximum depth of 1 meter for a maximum of 30 mins.

Total weight of the test instrument, including a powerful, quickly replaceable battery with up to 8 h service life. A replacement battery can be comfortably carried in a belt pack.

1.2 KG

ELOTEST \ M6 — www.rohmann.de

ELOTEST \ M6

Technical Data BASIC DEVICE ELOTEST M6 + M6 ADVANCE:

EDDY CURRENTS

1 channel with 2 separate receiver entries for the operation of combined difference/absolute probes for distance compensation or the separate evaluation of the difference and the absolute probe in defect and grinding burn inspection.

▷ Frequency range: 10 Hz - 12.5 MHz

▷ Output voltage: +/- 0.1 to +/- 5 Volt

▷ Output current: 300 mA

▷ Filtering range: 0 Hz - 100 kHz

▷ Amplification: 0 db - 80 dB, no pre-amplifier required

▷ Threshold: Line, Band, Box, Circle, FlatCircle

▷ Two parameter set multiplex (2 frequencies etc.)

▷ Sensor multiplexer control (external sensor Mux) for up to 256 sensors with two receivers, Mux rate up to 125 KHz (only ELOTEST M6 Advance)

CASING, SCREEN, ETC

▷ Full IP67 casing, also with open connectors

▷ Dimensions approx. 233 x 169 x 78 mm

▷ The desktop stand has two operation angles and has been optimized for curved and plane surfaces.

▷ Screen size: 7 inch wide High Brightness IPS display, resolution 1024 x 600 with LED background lighting 800 cd

▷ Capacitive touch surface

▷ Three operating directions of the device: right-hander vertical format, left-hander vertical format and desktop horizontal format

▷ Weight: approx. 1.2 kg including battery

▷ Integrated microphone and speakers for VoiceMemo recordings

▷ Ambient light sensor for a longer battery life in dark environments

BATTERY, PERFORMANCE

▷ Li-Ion standard battery, fully certified, no tool required for replacement

▷ Battery life up to 8 hours, depending on the application

▷ Table power unit for power supply and for charging the battery in the device at the same time

▷ OPTION: belt pack for an additional battery for range extension or for reducing weight in hand-held operation.

▷ OPTION: table charger unit for the battery

CONNECTIVITY

▷ Sensor adaptor for Rohmann standard cables, new Rohmann cables for the ELOTEST Accessory Bus, with a BNC plug for parametric sensors. Can be replaced without tools. Adaptors for external probes available on request.

▷ IP67 power connection for table power unit and battery in a belt pouch

▷ IP67 Ethernet connection, cable for standard RJ45 available, Gigabit Ethernet

▷ IP67 USB-C style connection with USB-2 log

▷ IP67 3.5 mm socket for headphones, headsets and microphones

▷ User accessible Micro-SD card slot in the battery compartment for storing settings and recordings

▷ User accessible standard USB connection in the battery compartment for WiFi/Bluetooth USB adaptor for an optional wireless connection

▷ Free of charge PC-Client for mirroring the user interface and for transmitting settings and recordings to a computer connected via Ethernet or a WiFi for documentation and training purposes

SOFTWARE CHARACTERISTICS OF ELOTEST M6

▷ Quick switch-over from one operating mode to another: defect recognition, rotor inspection, distance compensation

▷ Strip chart display with zoom, offline signal modification and direct recording on a MicroSD card

▷ C-SCAN recorder for rotor applications

▷ Waterfall chart for rotor applications

▷ Comment system with markers for all recorders: text marker, voice memo marker

▷ PDF reports with comments

ELOTEST M6 ADVANCE (ADDITIONAL FUNCTIONS)

▷ Array mode for sensor arrays with up to 256 sensors

▷ Guided sensor calibration for arrays

▷ C-SCAN operation for arrays

▷ Harmonic wave evaluation for sorting tasks

Rohmann GmbH