ELOTEST B300

Multi-frequency eddy current test system with up to 4 channels

Universally applicable
Eddy Current Test Instruments and Systems

**ELOTEST B300**
for laboratory, training and mobile use

The ELOTEST B300 universal eddy-current test instrument offers numerous application possibilities.

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**ELOTEST B300 and HDR-18 Rotor** – dynamic testing with rotating sensors

**Conductivity test** – Measurement of the conductivity of non-ferromagnetic metals and coating thickness measurement

**Segment coil with permanent magnets** – for inner and outer surfaces of tubes, semi-finished products and Bar inspection with eddy current

**Manual inspection of aircraft rims** – geometrically adapted sensors with 25 - 100 mm track width possible
Intuitively operable inspection device for hand-held eddy current sensors, inspection rotors and scanner systems

Portable test system for demanding applications, equally suitable for use in the laboratory and test field

24 Volt power supply

Standard with C-Scan for bore-hole inspection

Multifunctional signal processing, display, mix, analysis, storage and documentation

Fast, high-performance interface for bidirectional, digital communication

Special features

- Complete remote operation via included Win-Client software
- Optional connection for video camera, e.g. endoscope inspection
- Conductivity and layer thickness measurement, separately switchable bargraph display, sorting threshold setting: positive or negative
- Compatible with ScanAlyzer software running on an external PC (Windows 7)

ELOTEST B300 in combination with our ScanAlyzer software, processing and evaluation of surface scans.
ELOTEST B300

Technical Data

Device data
- Up to 4 test channels, frequency 10 Hz - 10 MHz
- Transmitter driver: dual, 15Vss, max. 250 mA, short-circuit proof
- Preamplifier 6 dB to 52 dB in 0.5 dB steps
- Main amplifier 0 dB to 60 dB in 0.5 dB steps
- Y-axis spread 0 dB to 30 dB in 1 dB steps
- Phase adjustment 0° to 359.5° in 0.5° steps
- Signal filter TP/HP; 0 Hz to 10 kHz in 40 steps, separately adjustable, bandpass filter with variable bandwidth

Sensor connection
- Suitable for all sensor types
- 3-RS adapter, exchangeable
- Optional 24-pin (Fischer) multi-function plug for use with special sensors with integrated characteristic curve or multi-sensor system (e.g. abs./diff. sensor systems); alternatively second ELOTEST B1 standard adapter socket

Universal Scanner Interface (USI)
- Multifunctional connection for rotary encoder, analog displacement encoder and digital I/O opt. decoupled

Interfaces
- Ethernet port (10/100 Mbit/s; RJ45, 100BaseT)
- RS232 (D-Sub 9) for mouse or external PC (optional)
- USB port (2x)
- VGA port for external monitor
- Parallel printer interface (D-Sub 25)

Display
- Active TFT colour display with 210 mm (8.4") diagonal, 640 x 480 pixels with integrated LED lighting

Case
- Impact- and shock-resistant ABS industrial plastic housing
- Housing cover with built-in display, rotatable by 180°, closed as protection for display and keypad
- Silicon keyboard with specific direct function keys, cursor block and softkeys
- Rotary knob for quick parameter setting
- Integrated, quick-change battery pack

Power supply
- Fast charging Li-Ion battery with intelligent charging electronics and autonomous battery status display; 5 hours operating time
- Wide range power supply, external; input 100-250 V/AC 50-60 Hz;
- Output 24 V/DC, 90 VA

Operating features
- Automatic preamplifier adjustment
- Automatic lift-off setting
- Mix function for multi-frequency applications
- Waterfall display for dynamic tests

Software
- C-Scan Software
- Conductivity measurement (60 kHz, with calibrated special sensors)
- Layer thickness measurement (60 kHz, with calibrated special sensors)
- Sensor array multiplex (additional hardware option)
- Windows remote control software WinClient
- ScanAlyzer software (optional) on external PC (Windows 7)

Device versions
- ELOTEST B310: Instrument with one test channel; sensors, rotors and cables of the series are compatible to ELOTEST M2/ M3
- ELOTEST B320: Device with two test channels; signal mix function
- ELOTEST B330: Device with three test channels; signal mix function
- ELOTEST B340: Device with four test channels; signal mix function

Dimensions (mm)
- Length: 370 mm (14.56 inch)
- Width: 242 mm (9.52 inch)
- Height: lid closed 95/110 mm (3.7/4.3 inch) lid open 300 mm (11.81 inch)

Weight
- Device without battery: 4,200 g
- Li-ion battery: 1,450 g

Order number
- ELOTEST B310 Set ... A0EZ10951010
- ELOTEST B320 Set ... A0EZ10952010
- ELOTEST B330 Set ... A0EZ10953010
- ELOTEST B340 Set ... A0EZ10954010

Set consists of:
- Test instrument
- Battery pack Li-Ion B300-BA5 18 V / 9 Ah
- Mains adapter B300-NT2
- B3-RS Sensor adapter
- Carry handle
- B300 Cordura Nylon protective bag

Individual components on request.