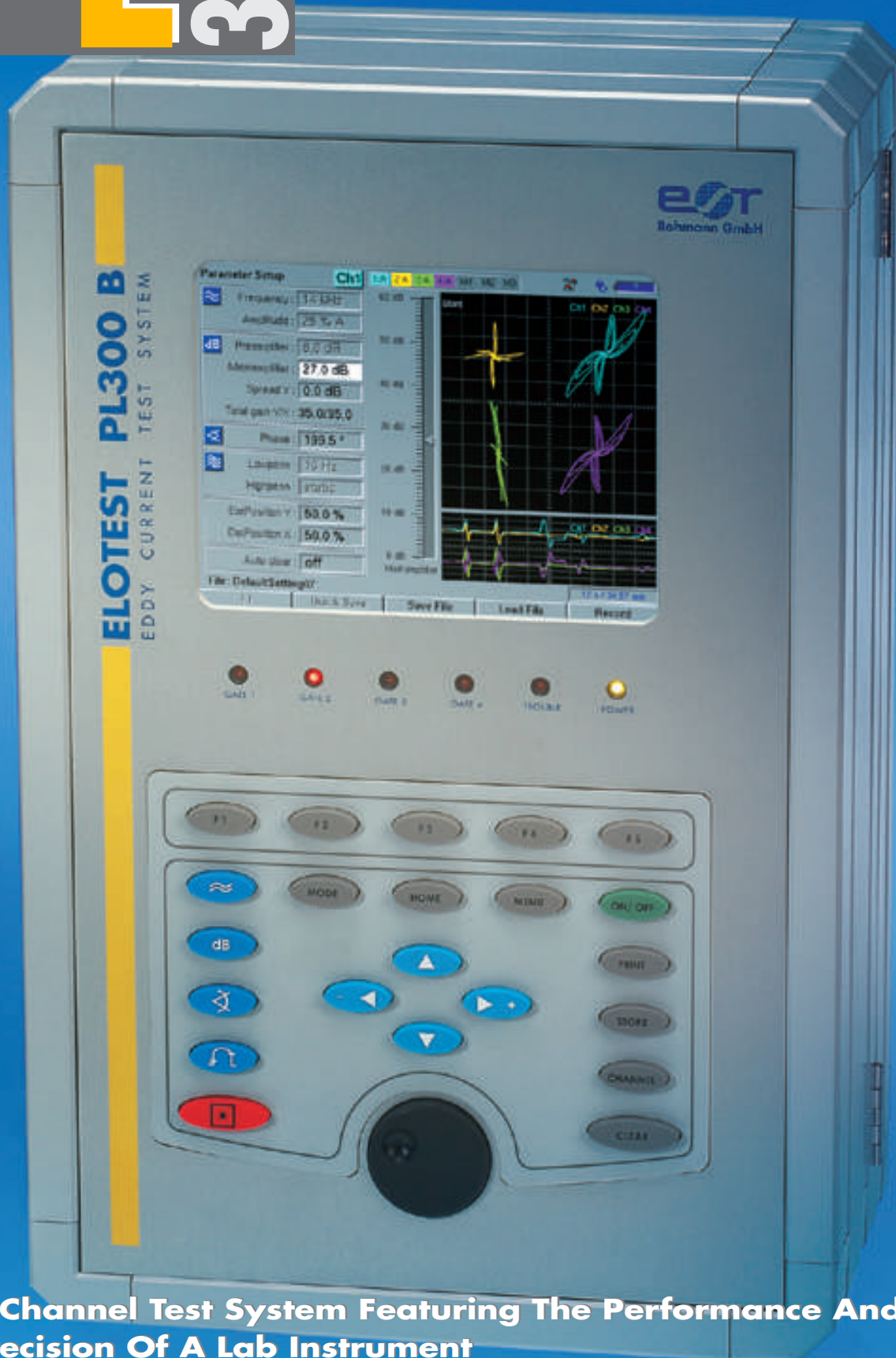


ELOTEST PL300B



- **4-Channel Test System Featuring The Performance And Precision Of A Lab Instrument**
- **Static And Dynamic Inspection Without Trade-Offs**

General

ELOTEST PL300B - A compact and high-performance eddy current test instrument with up to 4 channels.

Technical Data

Eddy Current Features

- Test frequency 10 Hz - 10 MHz
- Transmitting driver: 20 Vss, max. 400 mA, short-circuit-proof
- Preamplification 6 dB - 40 dB (6 to 52 dB below 100 kHz) in 0.5 dB steps
- Gain 0 dB to 60 dB in 0.5 dB steps
- Y-axis spread 0 dB to 30 dB in 1 dB steps
- Phasing 0° - 359.5° in 0.5° steps
- Signal filter LP/ HP; 1.8 Hz to 10 kHz in 40 steps, Separately adjustable; band-pass with variable bandwidth; HP may be disabled

Probe Connection

- All probe types may be used
- Probe connection via 15-pin D-Sub-connector
- Configurations of the connection:
 - all channels may be freely combined on up to 2 probe connectors via an analog multiplexer (multi-frequency operation of up to 2 probes)
 - One probe connector exclusively per test channel (up to 4 probes for the ELOTEST PL340B)

Universal Scanner Interface

Multifunction connector (44 pol. HD-Sub-connector) for rotary pulse encoder, analog encoder, analog output and TTL I/O featuring the following counter modes:

- Adjustable timebase
- Up-/down-counter with simple pulse, double pulse and quadruple pulse
- Analog input for linear encoders

Additional Interface

- Ethernet port (10/100 Mbit/s; RJ45, 100BaseT)
- USB-port (Type 1) for keyboard and mouse
- VGA-port for an external monitor
- Parallel interface for the printer (Centronix)

Housing

- Housing, IP 65
- All connections on the bottom side

Dimensions

Width: 310 mm
Depth: 180 mm
Height: 480 mm

Weight

12.3 kg (27,12 lbs)

Power Supply

Wide-range power pack, internal;
Input 100 - 240 V/AC, 50 - 60 Hz, 70 VA,
100 V: 0.7 A, 240 V: 0.3 A

Instrument Versions

- **ELOTEST PL310B:** 1-channel test instrument
- **ELOTEST PL320B:** 2-channel version; with two independent test channels may be configured as master-/ slave channel
- **ELOTEST PL330B:** 3-channel version; with three independent test channels may be configured as master-/ slave channel
- **ELOTEST PL340B:** 4-channel version; with four independent test channels may be configured as master-/ slave channel

Operating Characteristics

- Independent test system with keyboard and display
- Operation via built-in display and keyboard or Ethernet-interface (TCP/IP/protocol) and a suitable software
- Win-Client operating software with parameter handling, signal display and recording for Windows PC-systems included in the scope of delivery
- Description of the interface for customized software available upon request
- PL300 and B300 operating modes optionally available

Options

- 24 V I/O-interface
- Glazed protective door available for the front

Probe Array Multiplex

- Max. 32 probes

Conductivity Measurement

- Measurement in % IACS or MS/m between 1 % IACS and 110 % IACS
- Test frequency 60 kHz
- Calibration to 2 individually adjustable calibration marks

Layer-Thickness Measurement

- Measures non-conductive layers on conductive non-ferritic materials
- Measuring range up to 1000 µm or 40 mils

