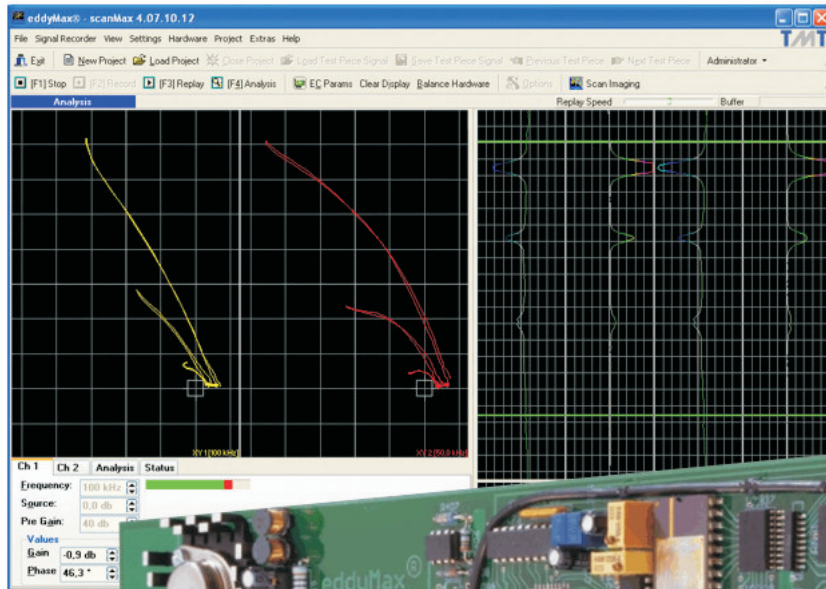


eddyMax[®]

Digital Eddy Current Plug In Board



Universal EC Instrument

Configurations for industrial, field and laboratory applications
Works with all types of EC probes

Flexible Hardware

Modular system structure
Upgrade possibility to a multi frequency and multi channel system
Wide frequency range and high signal dynamic range

Easy to Learn Instrument Handling

Clearly structured software handling
Easy access to all instrument functions

Individual Adaptation to your Inspection Task

Great choice of software modules for special inspection tasks
Integration into automated test systems

High Operator Acceptance

User friendly and ergonomic user interface
Brilliant colour signal display

Powerful Documentation Software

Signal protocol, data exchange and export of signal graphics

TMT.
Test Maschinen Technik GmbH

Technical Data

Frequency Range

1 to 4 adjustable frequency channels in the range from 10 Hz up to 2.5 MHz. Separately adaptable transmitter output voltage to the probe, range -40 up to 8 dB adjustable in 0.1 dB increments

Flexible Channels

Depending on the inspection task and the application used for the inspection several channels for signal processing including signal mixing channels are available.

Probe Matching

Adjustable preamplifier for optimal matching to the sensitivity of the probe, range 0 up to 78 dB in 6 dB increments with signal level indicator

Amplifier

Total gain range from -48 up to 126 dB main gain range from -48 bis 48 dB, adjustable in 0.1 dB increments, preamplifier range from 0 up to 78 dB, X/Y axis spread from -20 dB up to 20 dB, adjustable in 0.1 dB increments.

Phase

Total 360° range in 0.1° increments

Filter

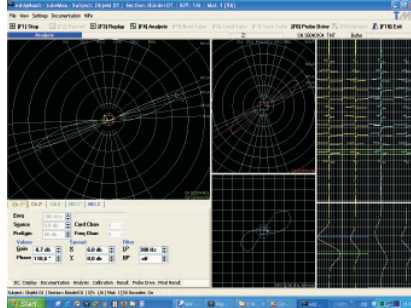
Adjustable low pass and high pass filter, range from 0.1 Hz up to 5000 Hz

Operation

Parameter setting by menus and function keys. Storage of the entire parameter setting and signals on a storage device.

Signal Display

Coloured signal display in impedance and chart mode, switchable to display in impedance mode with several signal windows. The signal can be displayed in store or nonstore mode with highlighted signal trace.



Probe Connector

9 Pin Sub D connector
Probe adaptors for connection of all probes are available

Probe Modes of Operation

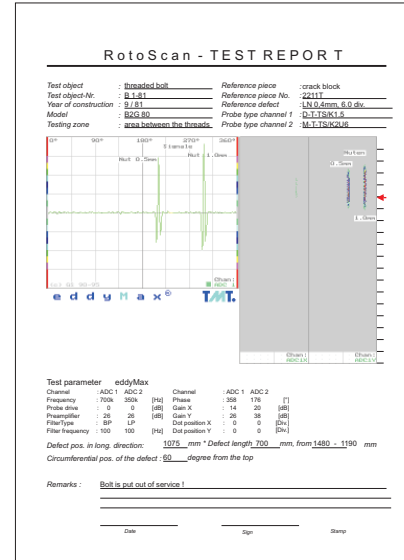
The instrument can be used for static testing with hand probes or dynamic operation with rotation probes. All types of probes like SR-probe, bridge probes and reflection probes can be connected.

System In- / Outputs

4 TTL compatible inputs
2 TTL compatible outputs
Input for rotor trigger
Input for eddyMax position encoder

Protocol Functions

Hardcopy of the screen display
Text editor for labeling the screen display prior to the output
Protocol output with text editor and documentation of the instrument parameters of all used channels



Weight

approx. 350 g

Dimensions

Width : 110 mm, Length : 338 mm
Full size ISA Board

Power Consumption

approx. 10W

Extensions and Accessories

Available Software

- eddyMax basic software
- universal eddyMax ScanMax software
- eddyMax Scan Imaging software
- eddyMax TubeMax software with automatic online signal analysis for inservice tube inspection
- Probe push puller control
- 3-axis manipulator control
- WinDevos data documentation for inservice tube inspections
- Inline testing software
- PSort an MSort sorting software
- Interface software
- Development of customized signal analysis and control software

Accessories

- Computer units in industrial chassis
- C-MEC remote field extension
- Probe push puller for heat exchanger tube inspection
- Remote controlled polar- and XY-manipulator systems
- Scanner for C-scan testing at flat and rotational symmetric samples
- Probe rotors for borehole and tube testing
- Probes for a wide range of applications
- Test and calibration standards
- Interface hardware for Inline and Sorting applications
- Probe multiplexer unit

Application Examples

- Inservice heat exchanger tube inspection with automatic online signal analysis and WinDevos result documentation
- ScanMax bolt and shaft inspection and C-Scan area inspection with Scan Imaging analysis software
- Aircraft crack testing
- Aircraft borehole inspection (BoreMax)
- Aircraft rivet row inspection (RivetLiner)
- Inline tube weld inspection with online signal analysis for evaluation of different sorting criteria
- PSort product sorting with self learning pattern recognition

presented by :

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