



# *eddyMax*® 4U II

*Digital 4-Frequency  
Universal Eddy Current Testing Instrument*



*Hand-, Rotation- and Scan-Testing  
in a single 4-Frequency Instrument*

**TMT.**  
Test Maschinen Technik GmbH

# Technical Data

## Frequency Range

10 Hz up to 2.5 MHz

## Number of Frequencies

4 adjustable frequency channels. Adaption of the transmitter output voltage to the probe, range -40 up to 8 dB adjustable in 0.1 dB increments

## 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 0,1dB 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

360° in 0.1°- increments

## Filter

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

## 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.

## Signal Display

Coloured signal display in impedance and chart mode, switchable to display in impedance mode with several signal windows.

The dot can be displayed in store or nonstore mode with highlighted signal trace.

## Signal display in C-Scan Mode

Coloured signal display in the impedance window and coloured C-Scan display in the chart window

## Modes of Operation / Probe Types

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.

## Screen

14" / 360mm TFT high luminance active matrix colour display

## Dimensions

Height : 125 mm  
Width : 320 mm  
Length : 295 mm without grip

## Weight

6.5 kg

## Power Supply

100 to 240V AC (50 to 60 Hz)  
optional 19V DC with adaptor  
Li-Ion-battery packs

## System In- / Outputs

- Parallel printer interface Centronics
- Serial interface RS232
- USB connectors for external devices
- Ethernet network connector
- PCMCIA Cardbus
- eddyMax probe connector
- eddyMax system connector

## Operation

Parameter setting by menus and function keys. Storage of the entire parameter setting and signals on hard disk or on external USB storage devices. Integrated touchpad pointing device and keyboard

## 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

## Software

- universal eddyMax ScanMax-Software
- Windows XP



# Extensions and Accessories

## Software Extensions

- eddyMax Scan Imaging Software
- eddyMax BoreMax application for 4-frequency aircraft borehole inspection
- eddyMax RivetLiner application for inspection of rivetrows on aircrafts

## Software Extensions

TubeMax application with signal analysis for heat exchanger tube inspection  
WinDevos-Data manager for heat exchanger tube inspection  
Interface for programming own applications

## Accessories

various probe adapters  
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  
transport bag

presented by :

# TMT.

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