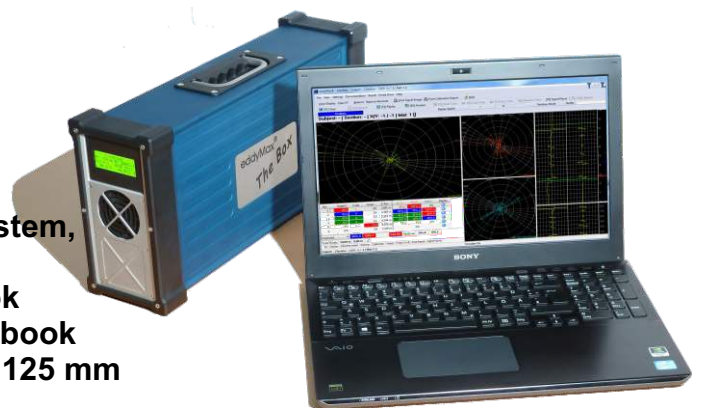


eddyMax[®] The Box

Digital 4-Frequency Universal Eddy Current Testing Instrument



- Aluminium profile housing
- Remote server concept:
 - Enhancements of the eddyMax[®] system,
 - signal preprocessing in The Box,
 - signal display on standard notebook
- Ethernet connection to any standard notebook
- Dimensions: approx. 460 mm x 225 mm x 125 mm
- Weight: approx. 6 kg
- Exchangeable battery (ca. 5-6 hours)
- Integrated display shows system status
- 24 V power supply
- Incl. 100 - 240 V AC adaptor



*One single 4-Frequency / 2 Probe Channel Instrument
for all eddy current testing applications*

Technical Data

Frequency Range

10 Hz up to 2.5 MHz

Number of Frequencies

Up to 4 adjustable frequency channels. Adaption of the transmitter output signal 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

Dimensions

Height : 225 mm
Width : 125 mm
Length : 460 mm

Weight

approx. 6 kg

Power Supply

external 24 V DC
incl. 100 - 240 V AC adaptor
exchangeable battery (5-6 hours working time)

System In- / Outputs

- Ethernet remote connector
- eddyMax probe connectors
- eddyMax system connectors

Operation

Operation of The Box is remotely performed by an external PC, e.g. a notebook using the appropriate software for the inspection task.

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.

Protocol Functions

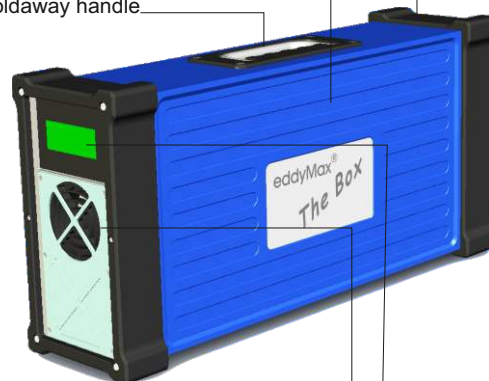
- Hardcopy of the screen display
- Text editor for labeling the screen display prior to the output
- Protocol output with text editor and documentation of the instrument parameters of all used channels

Housing

Protection frames

Aluminium profile

Foldaway handle



Front Panel

Cooling fan with filter pad (closable)

Status display



Rear Panel

Power On / Off switch

DC power connector

Ethernet connector (Host)

Battery Compartment

Probe channel 1 (Master)

System 1 (Master)

Fuse

System 2 (Slave)

Probe channel 2 (Slave)

Extensions and Accessories

Software Extensions

TubeMax application with signal analysis for heat exchanger tube inspection
WinDevos-Data manager for heat exchanger tube inspection

SLOFEC application for tank and pipe inspection

ScanMax / RotoMax application for surface scan inspection tasks

eddyMax Scan Imaging Software

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 box

presented by :

TMT.

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