

EddyUSB

The World's Smallest Dual Frequency Eddy Current Tester

Technofour EddyUSB quite literally puts NDT in your shirt-pocket. This incredible credit-card sized feather-weight instrument interfaces with a Windows tablet or laptop via USB and offers a dazzling array of features.

EddyUSB is a versatile dual-channel / multi-frequency ultra-portable test solution for various applications such as aircraft inspection for cracks and corrosion damage, material sorting, bolt hole inspection, heat exchanger examination etc.

EddyUSB is capable of static as well as dynamic eddy current tests. A wide variety of probes and test coils can be used in conjunction with the instrument. You can use shielded or unshielded differential as well as absolute coils in bridge or send-receive configurations. Handheld rotating probes can be used to scan for surface or bolt-hole defects.

Variants are available for coating thickness and conductivity measurements with associated special probes.

Automatic balance and automatic lift-off adjustment are provided, which simplifies the operation of the instrument. A wide frequency range allows inspection at just the right frequency for a given application.

Short-circuit protected drive allows optimizing test probes or coils at the desired operating frequency with complete confidence that the drive will not overload even if you set the frequency too low.

This affordable instrument is also ideal for training purpose in the eddy current technique. EddyUSB can be supplied with or without a tablet device or a laptop.

- USB interface with a Windows® Tablet/Laptop/PC
- Wide frequency range
- Single or Dual Frequency options
- Static and Dynamic tests
- Coating thickness and Conductivity measurement options
- Load or save often used parameter sets
- Light weight, ultra- portable device
- Automatic lift-off adjustment
- Automatic balance
- Automatic Mixer for dual frequency versions
- Intuitive menu driven software
- Online help system with online manual
- Recording and playback of signals
- Compatible with a wide variety of sensors
- Short-circuit protected drive
- Independent High-pass and Low-pass filters



EddyUSB TECHNICAL DATA

Frequency Range

55 Hz to 10MHz

Multiplexed operation (EddyUSB-2)

2 time-slots with 2 frequencies

Signal Gain

0 dB to 86 dB in steps of 0.1 dB

Phase

0 deg to 359 deg in steps of 1 deg

Thresholds

Static Mode: Box threshold

Dynamic mode: Sector / Amplitude / V-component

Filters

Independent high-pass and low-pass

Data Resolution

14-bit

Sampling Rate

Automatic

Data Storage

Hard Disk, Optical drive, USB key

Connectivity

USB

Setup

Manual and Automatic

Test Probes

Standard, bolt-hole, spade, custom-made

Rotating probes

Coating thickness probes

Conductivity measurement probes

Encircling coils

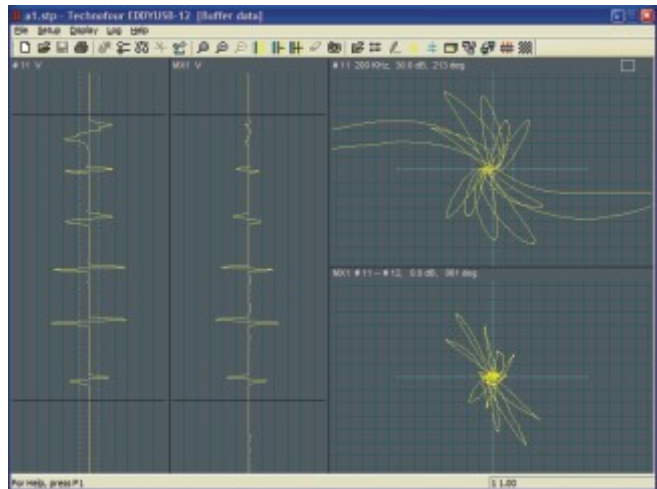
Bobbin coils

Power source

USB Bus Powered

Controlling Device

Windows PC/Laptop/Netbook/Tablet



Dual channel EddyUSB-2 allows mixing of two frequencies. Signals shown are from an ASME standard tube tested with a bobbin coil



Lift-off signals can be mixed out using two frequencies, simplifying surface crack detection

Ideal for field use, laboratory work or training alike, EddyUSB is offered in two variants:

EddyUSB for single frequency tests

EddyUSB-2 for multiplexed dual frequency tests

Both variants are available with or without conductivity measurement option



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Specification subject to change without notice