

EddyPulse

Compact Versatile Pulsed Eddy Current Tester

Technofour EddyPulse is an advanced compact instrument for non-destructive Pulsed Eddy Current inspection. A drive coil in the probe is excited by a pulse instead of sinusoidal voltages as in conventional eddy current instruments. A square pulse is rich in harmonics and offers many of the advantages of a multi-frequency instrument at a much lower cost.

EddyPulse is supplied with Smart sensors that automatically limit drive currents depending on the pulse width and pulse voltage. The instrument works with three kinds of pickups: Coil, Hall effect or GMR.

A reference signal - e.g. that from a defect-free location - can be stored, and subsequently used to show amplified difference signal, simplifying signal analysis. Important features from a signal such as time to peak, time to zero cross, time to cross each of the two gates - upwards or downwards - are available for analysis. A cursor reads out amplitude at any time delay location on the X-axis.

- Variable Pulse Width
- Variable Pulse Repetition Rate
- Variable Pulse Amplitude
- Smart Sensor auto-limits current draw
- Compatible with Coil / GMR / Hall sensors
- Variable Low-pass filter
- Automatic Balance
- On-screen reference
- Difference signal display
- Two adjustable thresholds
- 16-bit data
- Fast 1 MSPS sampling rate
- USB 2.0 interface with a Windows PC/laptop/tablet
- Compact form factor
- Cursor readout of time and amplitude
- Displays time to peak, time to zero cross or time to cross a gate in either direction
- Signal averaging for noisy environments
- Save and recall often used parameters
- Recording and Recall of A-scan snapshots
- Movie recording and playback of all signals



VERSATILE

COMPACT



TECHNOFOUR

THE NDT TECHNOCRATS

EddyPulse TECHNICAL DATA

Pulse Repetition Rate
40 to 1000 /sec

Pulse Width
100 microseconds to 10 milliseconds

Pulse Voltage
10, 15, 20, 25 and 30V selectable

Drive Limit
3A Max

Sampling Rate
1 MSPS

Data Resolution
16 Bit

Signal Gain
0 dB to 36 dB in steps of 0.5 dB

Display Range
100 uS to 40 mS

Averaging
1, 2, 4, 8, 16 and 32 A-Scans

Thresholds
Two independent with variable width

Feature Extraction
Time to peak
Time to zero cross
Time to threshold cross

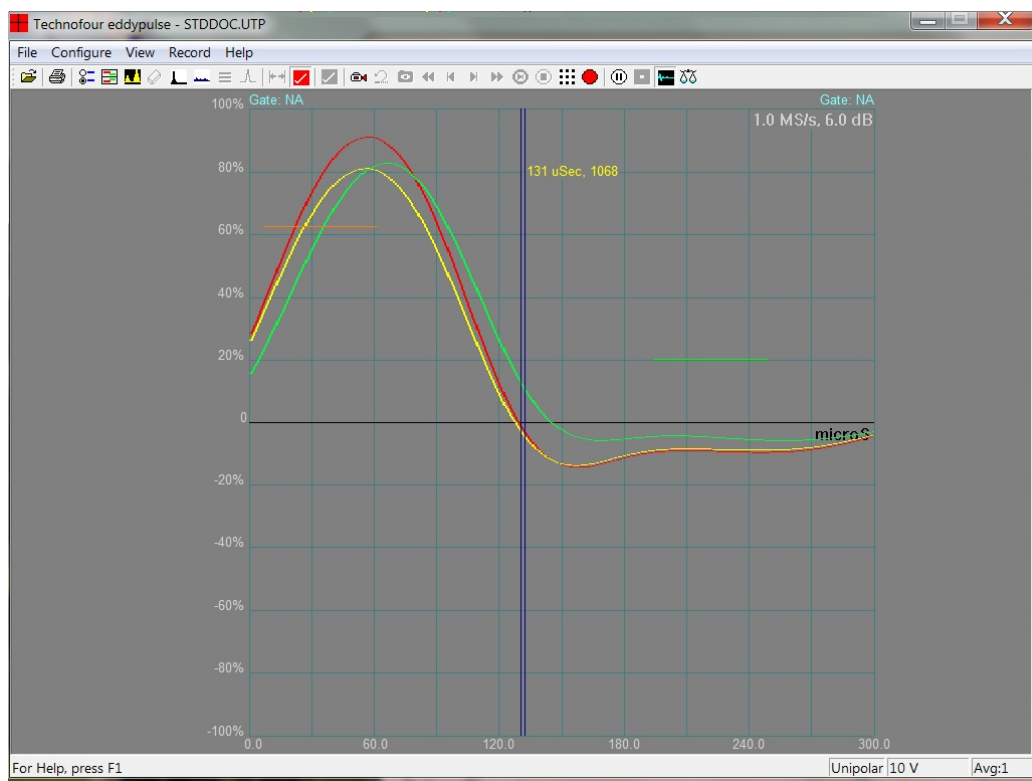
Low Pass Filter
100 Hz to 300 KHz

Balance
Automatic

Sensors
Wound Coil
Hall Effect
GMR

Connectivity and control
External computer connected over USB 2.0

Power Supply
110/220 V
50/60 Hz



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