

Multi-probes, Multi-frequencies
Multi-combination with video

EEC-39RFT+

EDDYSUN™

EDDY CURRENT TESTER

EEC-39RFT+ eddy current instrument with remote field technology option is a new generation eddy current instrument with advanced digital electron, remote-field eddy current, engineering endoscopes and microelectronic, detecting techniques. It can efficiently inspect both inner and outer defects of ferromagnetic tube in real time without the effect of lift-off, conductivity and skin effect, and pick up the signal of eddy current and video frequency synchronously. EEC-39RFT+ with full-digital, multi-frequency, multi-channel is a versatile system offering a comprehensive array of electromagnetic testing techniques available on a single instrument. EEC-39RFT+ can be used to inspect both non-ferromagnetic and ferromagnetic tubing materials for flaws such as pitting corrosion vibrations wear steam erosion and crack.

EEC-39RFT+ combines the advanced testing capabilities of the EEC-39RFT with a highly sensitive remote field technology option, makes the instrument an ideal solution for a broad range of tubing applications in the petroleum chemical and power generation industries. Where inspection of both nonferromagnetic and ferromagnetic materials is required. In contrast to other ferromagnetic tubing inspection, the EEC-39RFT+ provides not only a more complete --100% coverage with inner and outer surface discontinuity detection, but also thickness measurement -- in a fraction of the time.

Features And Specifications

With all of the functions of EEC-39RFT

Frequencies & Channels

- 8 eddy current frequencies
- Frequency range from 5Hz to 5MHz
(Remote-field frequencies from 5Hz to 5KHz)
- 8 independently-selectable channels
- Three signal mixing capabilities(Auto-mixing)

Gain Adjustment

- Adjustable gain from 0dB to 90dB in 0.5dB steps.
Gain magnify:1~100 times

Phase

- 359degrees phase shift can be varied in steps of 1 degree, the impedance plane can be rotated during modification for ease of operation.

Colored Real-Time Display

- Phase and amplitude scanning displays
- Multi displaying mode for selection, 8 trace of impedance plane
- Delay erase display mode
- Selectable background for polar and right coordinate systems
- All instrument settings are shown on the display.

Alarm and others

- No-equal phase /amplitude alarming area
- Store various testing programs and testing data
- Auto phase/display the strip curve of the cracks' deep
- Auto amplitude /display the strip curve of the cracks' deep

- Digital filters
- Fast electronic balancing
- Adjustable sample rate.
- Automatic/manual amplitude and phase measure, extend and replay the signal
- Man-machine conversation in menu
- Selectable of sound pulse testing mode and data analyzing system
- With the functions of measuring cracks and testing the conductivity of material.

Inputs

- Four connectors are provided for differential, absolute and reflection type probes. The connectors are designed to operate with most manufacturer's probes.
- Other connects are provided for rotating probe.

Outputs

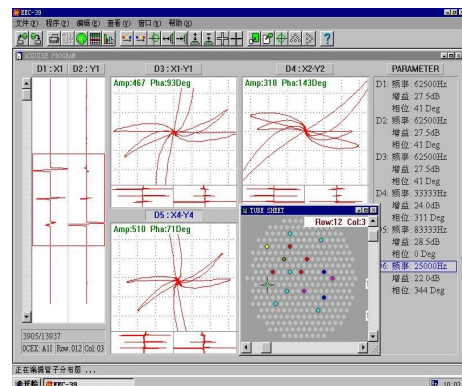
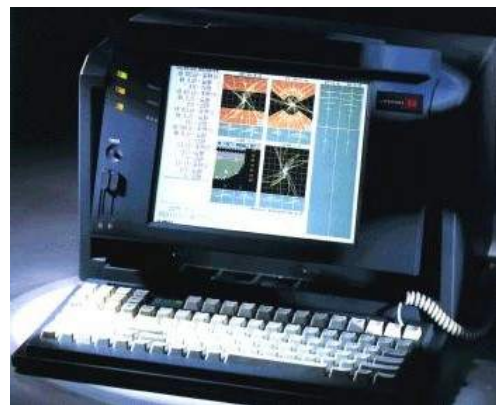
- Eight analog outputs
- Print data to Epson series

Memory Store & Recall

- Stores test setups
- Stores screen images

Easy to learn & Easy To Operate

- All parameter settings and configurations are done from the keyboard and can be individually stored and retrieved from hard or flexible disk.
- Friendly controls are directly accessible



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