

Dependability Quality



TECHINCO

CORROSION & NDT MANAGEMENT

Technical Inspection &
Corrosion Control Company
Since 1994

ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007, IMS

Other Asset Integrity Management Tools

- Risk-Based Inspection (RBI)
- Reliability Centered Maintenance (RCM)
- Hazard and Operability Study (HAZOP Study) and Safety Integrity Level (SIL Study)
- Fitness For Service (FFS)
- Failure Mode, Effect and Criticality Analysis (FMECA)
- Fault Tree Analysis (FTA)
- Material and Coating Selection
- Corrosion Monitoring and Controlling System
- Cathodic Protection



TECHINCO

Technical Inspection & Corrosion Control Company

Tel:+98-21-88529728-36

Fax:+98-21-88741040

www.techinco.net

info@techinco.net

Certified By:



I.R.I. Control Haek



Membership of:



IRSNT

EDDY CURRENT



ADVANCED
NDT
SERVICES

WHEN YOU NEED

DEFECT DETECTION, SORTING AND EVALUATION OF TUBES

Address: No. 18, Kooh-e-Noor St., Motahari Ave., Tehran, Iran

EDDY CURRENT

EDDY CURRENT



EEC-39 RFT is a new generation eddy current instrument with advanced remote field technology.

It can efficiently inspect both inner and outer defects of ferromagnetic tube in real time (with RFT system) and of non magnetic tubes (with ET system).

EEC-39 RFT with full-digital, multi-frequency and multi-channel is a versatile system. It can be used to detect flaws such as corrosion, vibrations, wear, steam, erosion and crack.

It is an ideal solution for a broad range of tubing applications in the petrochemical and power generation industries. In contrast to other ferromagnetic tube inspection, this device provides not only a more complete detection of inner and outer surface discontinuity but also thickness measurement.



It is an ideal solution for a broad range of applications in aeronautical and metal-mechanical field. The instrument is equipped with software and laptop for signals management.



Technical Specifications and Features

- 8 separate optional eddy current frequencies
- Frequency range from 5Hz to 5MHz (Remote-field frequencies from 5Hz to 5 KHz)
- 8 independent-selectable channels
- 3 signal mixing capabilities (Auto-mixing)
- Adjustable gain from 0dB to 90dB in 0.5dB steps.
- Gain magnify: 1~100 times
- Phase rotation: 0~359°, with precision of 1°
- Phase and amplitude scanning displays
- Multi- optional displaying modes, 8-trace of impedance plane
- Selectable background: Polar and right coordinate systems
- Delay erase display mode
- All instrument settings are shown on the display.
- No-equal phase/amplitude alarming area
- Testing function of real-time multi-probe, multi-channel
- High-speed scan use multi-coil array probe, and collect the differential and absolute signal of each coil at the same time
- Real-time memory 16-trace eddy current signal (8 testing-channel)
- Automatically/manually measure amplitude and phase
- Man-machine conversation menu
- Automatically calibrate system of probe
- Sound pulse testing model can be equipped with the equipment
- Data analysis system can be equipped with the equipment
- Auto display of phase/curve of cracks' depth
- Auto display of amplitude/curve of cracks' depth
- Display sectional-drawing of in-service tube, number of tested tube's row and column, and video signal on a screen
- Graduated mark sectional-drawing of tube, and then to form general picture of in-service tube
- Graduated statistic testing result (display with table and histogram)



The Controller of Eddy Current Probe Driver



Automatic Eddy Current Probe Driver

Dependability Quality

