

21CENTURY NDT

EEC-30S

EDDYSUN®

EDDY CURRENT TESTER

The **EEC-30S** Multi-channel Eddy Current Instrument represents a new generation of full-digital instrumentation. This tester provides maximum stability, reliability and sensitivity. The unique designed allows probe to detect welded pipe which does not need magnetizer and other mechanical auxiliary equipments. Testing capabilities include: defect detection of welded pipe on production line, damage detection of pipe (friction, wear, corrosion and so on) in services tube testing of heat exchanges.

TECHNICAL FEATURES

- ◇ Frequency range: 64Hz to 5MHz
- ◇ 2 separate testing channel
- ◇ Adjustable gain from 0 to 90 dB with step of 0.5dB
- ◇ Ratio of gain (Y/X): 0.1~10
- ◇ Phase rotation range: 0 to 360 in steps of 1 degree
- ◇ Detect speed up to 150m / min
- ◇ Multi filters type
- ◇ Display: CRT display, high-resolution graphic monitor presents two-dimensional pattern (impedance) and two-strip chart of the eddy current phase and amplitude vectors.
- ◇ Double or single strip chart display on full screen of CRT

- ◇ Phase and amplitude auto-measurement
- ◇ Ana logic X and Y, before and after filtering
- ◇ Alarms adjustable in voltage, position and type of starting (In/Out)
- ◇ Audio, visual and logic output alarms, alarm areas up to 8
- ◇ Printer interface: Supports Epson series printer
- ◇ Probe types: Differential, absolute, reflection, I.D, O.D.
- ◇ Display screen size: 14" diagonal, magnetic deflection
- ◇ Sweep: A-scan display
- ◇ Power requirements: AC 110V/220V

SOFTWARES OF EEC-30S PERMIT

- ◆ The setting of all eddy current parameters
- ◆ The visualization of impedance plan
- ◆ The storage of parameters in a file and the review
- ◆ The copy of screen on printer production screen
- ◆ The edition of identification of the product controlled
- ◆ The parameter of in/outputs (alarm, sorting, stopping machine)
- ◆ Alarms control of defects and conductivity measurement

- ◆ Acquisition of control
- ◆ Edition on screen and on printer of an exam report
- ◆ The software are realized on request

APPLICATIONS

- Control in line of seamless tube and welding tube, Control in line of wires, bars, shapes
- Characterization of products (conductivity)
- Quality material control
- Thickness measurement in continue
- Sorting of pieces probes :
Encircling probe
Accessories-demagnetization
opening probe



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