EDDY CURRENT TUBE TESTING EQUIPMENT SPECIFICATION (Qty: 01 Set)

Multiplexed, simultaneous, continuous

Tube testing equipment with following added features in a single package with compatible hardware:

5 Hz - 10 MHz

41 dB range, 23-64 dB

4 (Extended ET: 8)

5Hz - 250 kHz

I, pulse-echo

0-200V drive 0-70 dB (1 dB steps)

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. Up to 20Vpp

- 1. Eddy Current testing (ECT). 2. Remote Field testing (RFT).
- 3. Magnetic Flux Leakage (Mil.).
- 4. Ultrasonic tube testing (TRIS).

EDDY CURRENT I.

- Probe inputs
 - Frequency range
 - Generators / Coil drivers
 - Generator output / Coil drive
 - Injection modes
 - · Receiver gain
 - Data resolution
 - 16 bits Acquisition / Sampling rate Up to 50000 sample/s

2. REMOTE FIELD AND MAGNETIC FLUX LEAKAGE

- Probe inputs
 - Frequencies
 - Frequency range
 - Generator / Coil drivers Generator output / Coil drive
 - Up to 20 Vpp Receiver gain 50 dB range, 36 - 86 dB

3. IRIS ULTRASOUND TESTING

- Channels
 - Internal pulser / receiver
 - Filters
 - 25 MIIz system bandwidth Transducer frequency $5 - 20 \, \text{MHz}$
 - Digitizer 12 bits, 100 MHz Maximum pulsing rate
 - Views Wall thickness measurement
 - Turbine speed
- Up to 26 kHz Real-time A, B and C-scans

4 user-selectable filters

- 50 % thinner than competitors (patent pending)
- Up to 100 RPS for fast pulling

4. ECA, TECA AND NFA (Optional)

• Channels 64, 128 or 256

Frequency range 500 Hz 4 MHz

Multiplex SmartMUX™

Connector Single or double 160-pin array

External multiplex interface
 Generator output / Coil drive
 Up to 20 Vpp

5. SOFTWARE FEATURES

Configuration for tube inspection with conventional probe.

· Simultaneous calibration for all channels and depth curves.

Wall thickness (%loss and remaining thickness), IRIS, contact measurement mode.

· Wall thickness, ID, OD and color C-scan for circumferential and D-scan for tube axial configuration.

Microsoft Windows NT, Windows 2000, Windows Xp.

6. PROBES & ACCESSORIES (Optional)

A) BOBBIN PROBES

Sr. No.	Tubes Specification (mm)				Frequency	Probe Specification				
	αo	D	Thickness	Material	Range (KHz)	Diameter (mm)	Тура	Qty. Required	Cable Length (M)	Connector Type
1	19	15	2	Duplex DP-12	15-150	11	Super Magnetic Bias	2	20	4 Pin Amphenol
2	31	25	3	Duplex DP-12	001-01	20		2		
	32	25	3			2.2		2		
3	17	13	2	Carbon Steel	0.1-1	12	RFT (Remote Field Testing)	2		
	27	21	3			20		2		

B) SURFACE PROBES

8r. No.	Description	Material	Frequency Range	Туре	Qty, Required	Connector Type	
1	Pencil probe (Shielded)	ncil probe (Shielded) Fe/NFe 500 KHz.			3	,	
2	Pencil probe (Shielded)	Fc/NFc	2MHz	Surface Probe	2	4 Pin Amphenol	
3	Spring Loaded probe	Fe/N/e	1-100KUz				
4	Surface probe 90 degree	Fc/NFe	1-500 KHz		2		
5	Surface probe 90 degree	Fc/NFe	1-100KHz		3		

C) Voice communication system for in-service inspection.

7. DOCUMENTATION

- All related Instruction/ Operation/ Service manuals, Software and Driver CD's in English must be included in the package.
- Calibration/ Qualification certificates of the required items/equipment must be included in the package.
 Proper and local warranty certificates of the items/equipment/accessories must be included in the package.

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