RUSSELL

Technologies-India

FERROSCOPE 308

RFT/ECT Instrument and Software



Carbon Steel, and non-ferrous Heat Exchanger Tube inspection



Mechanisms

E-PR

Management Standard Institute

Mechanisms

Mecha

E-PIT (External Pipe Integrity Tool) For Pipeline or Boiler Tubes



I-PIT Pipeline and pipe spool inspection tools

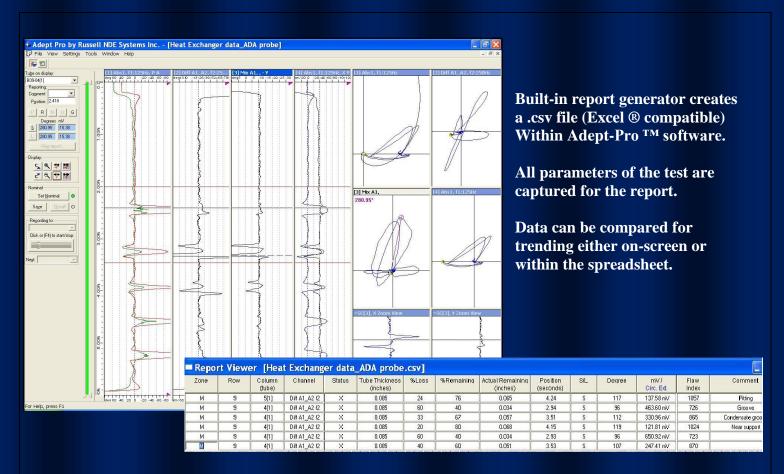


FERROSCOPE: THE MOST VERSATILE RFT INSTRUMENT ON THE MARKET: BAR NONE!

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FERROSCOPE 308 RFT/ECT SPECIFICATIONS

Frequencies:	Eight (8) frequencies from 10Hz to 12 MHz
Channels:	4, 8, 12 or 16 channels of RFT data
	4, 8, 16 or 32 channels of ECT data
Sample Rate:	Up to 2000 samples/second
Power:	85 to 264 VAC at 47 to 440 Hz or 120 to 250 VDC
Temperature range:	-20C to +50C
Certifications:	CSA, CE, FCC, (Canada, USA, Europe)
Coil Drive (Ferroscope 308	Coil Bridge drive voltage can be set independently for each
ECT):	frequency, up to a total of 350 mA peak and a maximum of 20 Volts
	peak-to-peak. Coils are protected from over-voltage.
Frequency Drive type:	Simultaneous or time-slot injection types
Computer Interface:	USB 7.2 Mbps
Coil Types available:	Impedance; pitch-catch; near field and far field; absolute; differential,
	bobbin; pancake; array; TT TM (Through Transmission), magnetic
	saturation; partial saturation, internal, external, T-4 TM , I-PIT TM ; E-
	PIT TM ; and solid state sensors
Output Impedance:	50 Ohms
Strip Chart Displays:	Four (4) strip charts with zoom views of each chart
Voltage Plane Displays:	Four (4) voltage planes (XY, Lisajous or Polar Plot type, with
7	thickness reference curve)
Zoom options:	Zoom vertically using hot keys or mouse Zoom horizontally on multichannel data
	Rotate through multichannel data (one data channel is highlighted at a
	time with its data viewed also in the Voltage Plane
Colour Map	Pipe View or Global view available on multichannel instruments
Gates:	Gated area is mouse adjustable on Strip Charts
	Gated area signals appear on Voltage Plane
	Gated area can be scrolled through data with mouse
Calibration:	Calibrate on known flaws in ASME or ASNT reference tube by
	framing the signal with the gate and selecting the defect type and
	depth from a pull-down menu. Automatic generation of Cal Curves in
	EasyLog™
	Import and export of Cal set-up files.
Distance Measurement:	Interpolated distance or encoder input
Data options:	Display Phase, Log Amplitude, Magnitude, X or Y.
	Absolute, differential, MIX, C-FLTR TM or Q-Coil TM
Internal Probe types:	Absolute, differential, array, spot coil, T-4 TM , Saturn TM ,
Extannal Ducha Tymes	I-PITTM, Dual exciter, Dual detector, TTTM and more.
External Probe Types: Software:	E-PIT TM , VertiScan TM , TT TM , Bracelet and more. Adept-Pro TM , Adept-Pro MC TM ; EasyLog TM ; EasyLog MC TM
Data Analysis:	Semi automatic after calibration of RFT and XY data
Reporting:	Built-in report generator. CSV file output
Mapping:	Interface to several tube sheet mapping programs such as TubePro,
Mapping.	TSD and Triax software. Import and Export of tube lists
Trending:	Compare up to five separate data files on-screen simultaneously
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Multi-channel strip charts with Colour Map image "Pipeview" (shown) or "Global View".

Voltage Planes display the data from within the gated area, on the blue highlighted channel

After calibration the click of one button makes an entry in the built-in Report Generator.

