Ready for the future caring for the custome

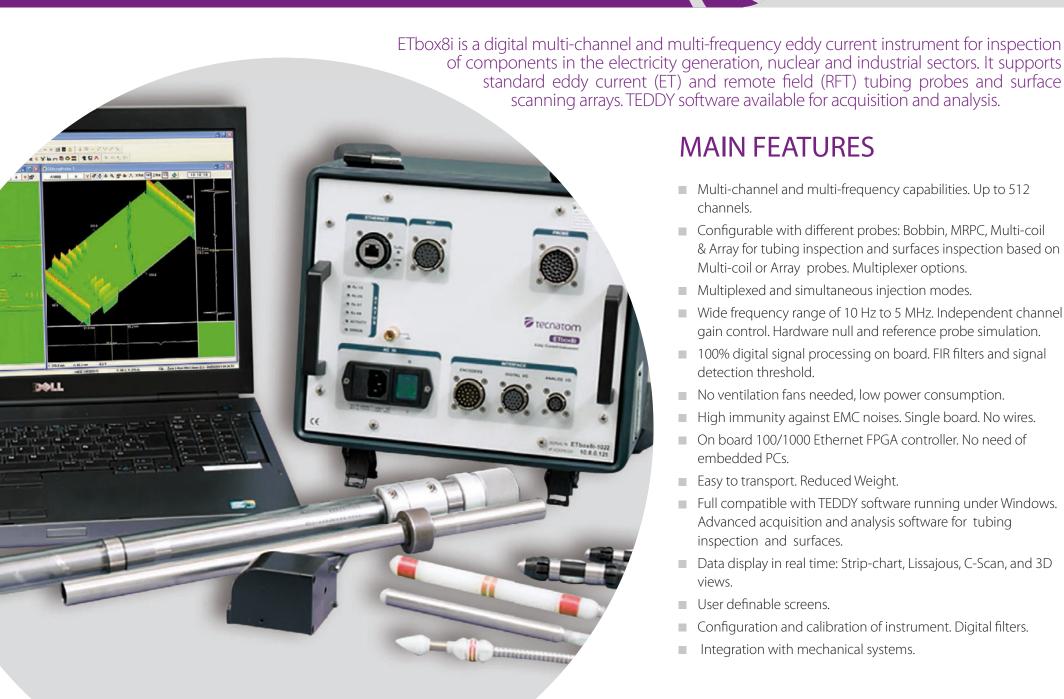


Eddy Current Products

ETbox8i[®]
Advanced Eddy
Current Instrument



ETDOX8i Advanced Eddy Current Instrument



MAIN FEATURES

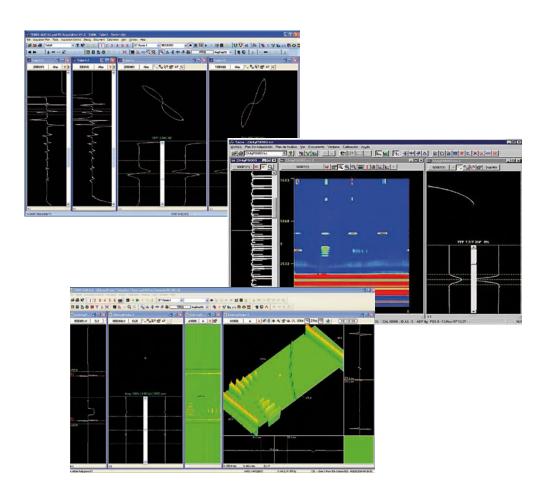
- Multi-channel and multi-frequency capabilities. Up to 512 channels.
- Configurable with different probes: Bobbin, MRPC, Multi-coil & Array for tubing inspection and surfaces inspection based on Multi-coil or Array probes. Multiplexer options.
- Multiplexed and simultaneous injection modes.
- Wide frequency range of 10 Hz to 5 MHz. Independent channel gain control. Hardware null and reference probe simulation.
- 100% digital signal processing on board. FIR filters and signal detection threshold.
- No ventilation fans needed, low power consumption.
- High immunity against EMC noises. Single board. No wires.
- On board 100/1000 Ethernet FPGA controller. No need of embedded PCs.
- Easy to transport. Reduced Weight.
- Full compatible with TEDDY software running under Windows. Advanced acquisition and analysis software for tubing inspection and surfaces.
- Data display in real time: Strip-chart, Lissajous, C-Scan, and 3D views.
- User definable screens.
- Configuration and calibration of instrument. Digital filters.
- Integration with mechanical systems.



TEDDY SOFTWARE

Teddy software includes a full suite of applications for advanced acquisition and analysis for both tubing inspection and other components of the industry.

TEDDY software is Windows XP/7 compatible. Alternatively drivers software and support documentation are available for customizable user applications with ETbox instruments.



TECHNICAL SPECIFICA	TECHNICAL SPECIFICATION	
Power	100-240 VAC 50-60 Hz	
Operating Temperature	0°C to 40°C	
Storage Temperature	-20°C to 70°C	
Instrument Weight	5Kg	
Instrument Size	30 x 25 x 27 cm WxDxH	
System	Up to 50,000 Acq/sec Ethernet 100/1000BaseT Connetion Internal, External, Encoder Trigger Modes	
Emitters	4 Generators Multiplexed and Simultaneous Injection modes 0-24Vpp Range Volts (1V Resolution) 16 Time-slots up to 64 frequencies 10Hz to 5MHz Range	
EC Receivers	8 Coils 16 Time-slots up to 64 frequencies 10Hz – 5MHz Range Independent channel gain Hardware null Reference bobbin simulation 0dB – 40dB Range Gain (1dB Resolution)	
Probe Types	Bobbin, MRPC, Multi-coil and Array Probes, RFT Prob	
Channels Capabilities	Multiplexed mode: 128 Simultaneous mode: 32 Mix mode: 512	
Encoders:	Up to 6 encoders TTL Level / Differential / Isolated Incremental or Pulse Type	
Digital Inputs	4 Inputs TTL Level / Differential / Isolated Input, Enable ACQ, Trigger Modes	
Digital Outputs	4 Outputs TTL Level / Differential / Isolated Output, Alarm, Trigger Modes	
Analogue Inputs	2 Inputs ±10v Range – Isolated 20KHz bandwidth	
Analogue Outputs	2 Outputs ±10v Range – Isolated 20KHz Bandwidth	
Firmware process	FIR filters, threshold detection, tube-air detection	

ETbox8i Advanced Eddy Current Instrument

APPLICATION FIELDS

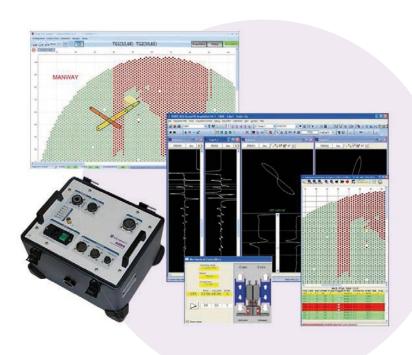
Power Generation

Tubing inspection for steam generators, heat exchangers and condensers. Fuel rods inspection. Head penetrations. Welds and components surfaces inspection.

Industry and Others

Quality control of component manufacturing. Material testing in laboratories, R&D activities...





ORDERING INFORMATION	
Reference	Description
ETbox8i	ETbox instrument 8 inputs
ET8BB41BDA	1 Bobbin differential-absolute connection probe adapter
ET8BB42BDA	2 Bobbin differential-absolute connection probe adapter
ET8BB44BDA	4 Bobbin differential-absolute connection probe adapter
ET8MRP1RPC	1 RPC probe adapter
ET8MRP2RPC	2 RPC probe adapter
ET8RFA1RFT	RFT Adapter
E8iTP31TPD	Tprobe array probe adapter



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