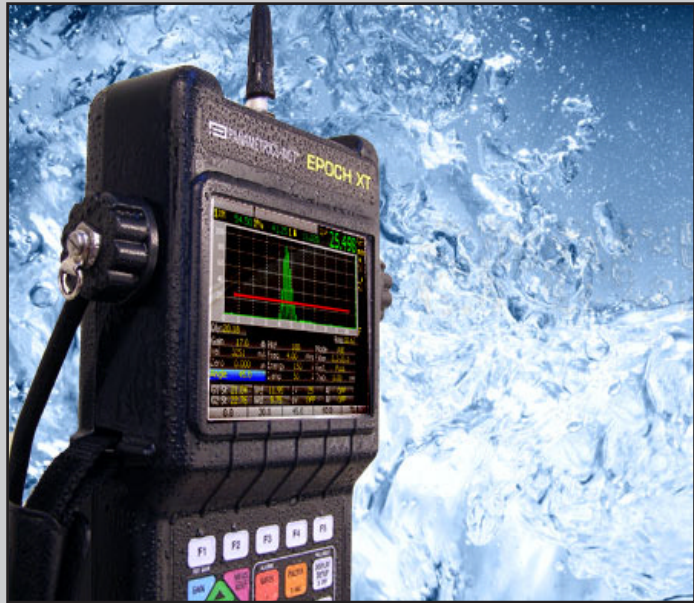


EPOCH XT ULTRASONIC FLAW DETECTOR



GENERAL DESCRIPTION

THE COMPLETE ULTRASONIC FLAW DETECTOR

The new Panametrics-NDT EPOCH XT Ultrasonic Flaw Detector is designed for great inspection flexibility and for use in extreme environments. It combines a multitude of enhanced flaw detection and measurement features, a bright multicolor LCD, versatile battery options, powerful data management, and numerous software features in a compact unit with a sealed case designed to meet IP67 requirements.

FEATURES

- EN 12668-1 compliant
- Tested for Explosive Atmosphere, Vibration and shock
- Designed to meet IP67 requirements. Sealed to withstand harsh environments
- Dynamic DAC/TVG Standard
 - Dynamic DAC curves
 - Custom warning levels
 - Meets ASME and JIS requirements
 - Advanced TVG Table allows customized TVG setups
- Multiple Battery Options – can be used with Lithium Ion, NiMH, or C-Cells
- Host USB Port for direct printing and storage to USB drives
- Client USB Port for PC communication
- “PerfectSquare™ Technology”: Pulse is electronically controlled on both the leading and trailing edges to maximize transducer performance and near surface resolution.
- PRF adjustable from 10 Hz to 1kHz in 10Hz increments. All measurements are taken “single shot”.
- Powerful alphanumeric datalogger
 - Corrosion thickness gage file types can be set up onboard
 - Simple incremental files
- Multi-color LCD display
- Lightweight – 4.7 lbs (2.1 kg)



**Making
technology
work for you!**

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Accredited to BS EN ISO 9001:2000

EPOCH XT ULTRASONIC FLAW DETECTOR

TECHNICAL SPECIFICATIONS

<p>GENERAL EN12668-1 Compliant Weight: 4.7lbs (2.1kg) with Li Battery</p> <p>Dimensions: 10.9"Hx5.9"Wx2"D (at hand), 2.8" (at display); 277mmx150mmx51mm (at hand), 71mm (at display)</p> <p>Keypad: English, International, Japanese or Chinese</p> <p>Languages: English, Spanish, French, German, Italian, Japanese, Chinese, Russian, Korean, Norwegian, Swedish Custom languages available.</p> <p>Transducer Conns: BNC or Number 1 Lemo</p> <p>Battery: Choice of Lithium Ion, Nickel Metal Hydride, and Alkaline C-Cells</p> <p>Battery Operating Time: Lithium Ion: 9-10 Hours, NiMH: 5 Hours, C-Cells: 1-2 Hours</p> <p>Power Requirements: AC Mains: 100-120VAC, 200-240 VAC, 50-60 Hz</p> <p>ENVIRONMENTAL RATINGS IP67 Designed to meet the requirements of Environmental Ingress Protection Rating (with BNC connectors only)**</p> <p>Explosive Atmosphere approved per MILSTD-810F, Procedure 1, NFPA 70E, Section 500, Class 1, Div. 2, Group D Shock tested - per IEC 60068-2-27, 60g's, 6msec H.S., 3 axes, 18 total Vibration Tested - Sine Vibration per IEC 60068-2-6, 50-150 Hz @ .03" DA or 2g's, 20 sweep cycles</p> <p>DISPLAY Color Liquid Crystal display with 60 Hz update, user-selectable color schemes and brightness, and split screen and full screen modes.</p> <p>Display Dimensions: 320 Pixels (W) x 240 Pixels (H) Color 4.313" W (110 mm) x 3.125" H (79 mm)</p> <p>Baseline Break Mode: All zero cross points on the RF waveform are shown as zero points in Fullwave mode.</p> <p>Amplitude Grid Modes: 100% or 110% Amplitude Display</p> <p>Time Base Grid Modes: Standard 0 to 10 division, Soundpath Mode divides Range into 5 equal sections with grid lines, Leg Mode displays Soundpath Legs as grid lines</p> <p>PULSER Tunable Square Wave Pulser</p> <p>PRF: User Selectable or Auto from 10 Hz to 1000 Hz</p> <p>Energy Settings: 50 to 475V in 25V increments</p> <p>Pulse Width: Adjustable from 30 to 10,000ns (0.1 MHz) with PerfectSquare™ Technology</p> <p>Damping: 50, 63, 150, 400 Ohms</p>	<p>RECEIVER Gain: 0 to 110 dB – Two user-defined gain step adjustments and presets above function keys.</p> <p>Total Instrument Bandwidth: 0.2 – 26.5 MHz @ -3 dB</p> <p>Digital Filter Settings:</p> <ul style="list-style-type: none"> • 0.2 – 10.0 MHz • 0.2 – 1.2 MHz • 0.5 – 4.0 MHz • 1.5 – 8.5 MHz • 2.0 – 21.5 MHz • 5.0 – 15.0 MHz • 8.0 – 26.5 MHz <p>Rectification: Fullwave, Positive Halfwave, Negative Halfwave, RF</p> <p>System Linearity: Horizontal: +/- 0.2% FSW Vertical: 0.25% FSH, Amplifier Accuracy +/-1dB</p> <p>Reject: 0 to 80% full screen height with visual warning</p> <p>CALIBRATION Automated Distance Calibration for Velocity and Zero Offset</p> <p>Test Modes: Pulse Echo, Dual, or Through Transmission</p> <p>Units: Millimeters, Inches, or Microseconds</p> <p>Range: 0.073 to 527" (1.86 to 13,400 mm)</p> <p>Velocity: 0.025 to 0.6000 in/1sec (635 to 15240 m/S)</p> <p>Zero Offset: 0 to 4950 isec</p> <p>Display Delay: -2.323" to 500" (-59 mm to 12700 mm)</p> <p>Refracted Angle: 10° to 85° in 0.1° resolution</p> <p>MEASUREMENTS</p> <p>Types: Thickness, Soundpath, Projection, Depth, Amplitude, Time-Of-Flight for both Gate 1 and Gate 2.</p> <p>Echo-To-Echo: Standard.</p> <p>Five Measurement Display Locations: User selects up to five measurements from either gate to display on the live screen.</p> <p>DAC/TVG Standard: Up to 50 points captured, ASME, ASME III, JIS, 80-20%, CUSTOM DAC, and TVG Table. 110dB Dynamic Range, 100dB per usec adjustment, full gain, range, and delay adjustments during setup, view switchable between DAC/TVG.</p> <p>CUSTOM DAC with up to three warning curves from +10 dB to -24 dB</p> <p>TVG Table setup for advanced Time Varied Gain applications. Also allows TVG setups to be built from DGS/AVG diagrams.</p> <p>Amplitude Measurement: 0 to 110% full screen height with 0.25% resolution</p>	<p>Curved Surface Correction for Angle Beam measurements standard</p> <p>X-Value Correction for distance from Beam Index Point to front of transducer.</p> <p>GATES Two Fully Independent Gates for Echo Height and Time-Of-Flight.</p> <p>Gate Start: Variable over entire displayed range</p> <p>Gate Width: Variable from Gate Start to end of displayed range</p> <p>Gate Height: Variable from 2 to 95% Full Screen Height</p> <p>Alarms: Positive and Negative Thresholds; Minimum Depth on Gate 1 and Gate 2</p> <p>Zoom: Displayed Range is Gate 1 Width</p> <p>INSTRUMENT INPUTS/OUTPUTS USB Client Port: For communication with GageView Pro</p> <p>USB Host Port: Allows direct printing to any PCL5 compatible Laser or Inkjet printer as well as data storage on USB drives.</p> <p>LEMO Hardware I/O (optional): Alarm Outputs, Trigger In/Out</p> <p>DATA STORAGE Up to 10,000 IDs with Waveforms, Measurements, and Setup Parameters</p> <p>WARRANTY One year limited warranty.</p> <p>STANDARD INCLUSIONS EPOCH XT Base Instrument Includes:</p> <ul style="list-style-type: none"> - EP4/MCA: AC Adaptor - EPXT-TC: Transport Case - EPXT-MAN: Instrument Operating Manual - EPXT-HS: Bi-Directional Hand Strap - EPXT-PS: Rubber Coated Stainless Steel Pipe Stand - Lithium Ion or Nickel Metal Hydride Battery - Cap(s) for transducer connectors <p>OPTIONAL ACCESSORIES</p> <ul style="list-style-type: none"> - EPXT-EC: External Smart Battery Charger - EP4/CH: Chest Harness - EPXT-RPC: Rubber Protective Case - EPXT-DP: Clear Display Protectors (10) - EPXT-C-16HW-6: 16 pin Hardware I/O cable with diagram - EPXT-HWIO-B, L: Hardware I/O option - EPXT-SEAL-KIT: Set of O-Rings and membrane - EPXT-EW: Extended Warranty for one additional year. <p>SOFTWARE OPTIONS DGS/AVG (PN: EPXT-DGS-AVG) AWS D1.1/D1.5 (PN: EPXT-AWS) GAGEVIEW PRO (PN: GAGEVIEWPRO-KITUSB)</p>
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