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Ставрополь (8652)20-65-13

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Ярославль (4852)69-52-93

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Казахстан (772)734-952-31

Таджикистан (992)427-82-92-69

<http://zetec.nt-rt.ru> || zct@nt-rt.ru

Вихретоковые дефектоскопы MIZ-21C, MIZ-21B, INSITE

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

MIZ-21B

▶ Wheel Bead Seat Inspection

Early crack detection allows you to repair or replace damaged wheels before bigger problems develop. With Zetec's Bead Seat Probes, you can inspect this region with only one pass around the wheel, greatly increasing throughput.

▶ Airframe Fastener Row Inspection

Rapidly detect longitudinal fatigue cracks between fastener holes, such as at lap splices, with the MIZ-21B and the Reflection (Driver-Pickup) Sliding Probe.

▶ C-scan Display for Fastener Holes

The C-scan display is a unique way to present the "big picture" in fastener hole inspection. This method works exceptionally well with an indexing rotating scanner when fasteners are removed.

▶ Probe Optimization

The MIZ-21B also includes a Probe Plot feature that plots probe response to both the test and reference specimens over a range of frequencies. This feature helps you choose the probe's optimum operating frequency for each application.



Superior Flaw Detection and Faster Aircraft Inspections

Take advantage of the reliable eddy current technology in a convenient handheld package that gives you more ways to find more defects in less time. Test for cracks, corrosion, heat damage, and more. Dual frequency capability and digital conductivity testing are included in the MIZ-21B.

The MIZ-21B incorporates the power of dual-frequency testing, digital conductivity testing, and nonconductive coating thickness measurement. Its industry standard 50-ohm probe drive provides the optimum balance between probe input and instrument output. Yet it's priced to provide excellent value when you need a dedicated eddy current instrument.

The MIZ-21B has seven different eddy current data display modes. Choose XY Impedance Plane, Bar Graph, Triggered Sweep, Auto Sweep (slow or fast), C-scan, and digital conductivity. For rapid analysis, the dual display feature can present signals side-by-side in sweep and XY modes. Or, you can view a reference signal and a live test signal simultaneously.

The MIZ-21B's dual-frequency mixing capability suppresses undesirable variables to let you more easily identify and size flaws. Digitally mark up to 10 display points on the screen. Signal size is identified as a percent of screen height using the ruler on the electronic graticule.

MIZ[®]-21B

The Most Powerful Handheld Eddy Current Tester

Specifications

Case

- Dimensions: 11 L x 5 W x 2.5 D inches (28 x 13 x 6 cm)
- Weight: 3.9 lb (1.7 kg)

Power

- Batteries: internal, rechargeable, memory-free long-life nickel metal hydride (NiMH)
- 12-hr operation without additional accessories; more than 9 hours with backlight on
- On-screen message area for low battery and signal saturation
- Less than 2.5-hr quick charge
- Universal charger power input: 85-264 VAC / 47-63 Hz
- Optional external 12 VDC alkaline battery power pack

LCD Display with Backlight

- 240 x 320 pixels
- 2.25 x 4.50 inches (5.7 x 11.4 cm)
- Fast-responding, high-contrast
- Wide viewing angle (60°)
- Extended temperature range maintains clear visibility and speed at temperatures below freezing
- Backlight with long-life LED
- Operates in total darkness
- Maintains full contrast in brightest sunlight
- High-strength polycarbonate window with scratch-resistant coating

Inputs/Outputs

- Remote Connector (serial port) for PC interface, supports:
- Printing via Hewlett-Packard, Epson emulation, or Seiko DPU-414 Type II thermal printer
- Screen capture to PC
- Store or recall test configurations to PC
- Software revision updates
- Selectable horizontal and vertical analog outputs
- Probe Connector – auto-switches to interface with all standard probe configurations
- Battery Connector – charging and external power

Environmental

- Operating temperature range: 14° to 131°F (-10° to 55°C)
- Storage temperature range: 0° to 140°F (-17.7° to 60°C)
- Humidity: 0 to 100% noncondensing

Certification

- MIL-STD-810
- CE Mark
- ISO 9001

Flaw Detection

- Programmable analog drive and gain stages
- Noise-suppressing synchronous demodulation circuitry
- 16-bit A/D converter
- High-gain analog circuitry

Display Modes

- XY Impedance Plane
- Bar Graph
- Triggered Sweep
- Auto Sweep Slow
- Auto Sweep Fast
- C-scan (Plotted Waterfall)
- Screen data clearing is manual (CLR button) or automatic (variable persist mode)
- 2-signal display can show two signals side-by-side in sweep and XY modes

Scanner Support

- Supports HS Scanners
- Support for other manufacturers' scanners is available, consult Zetec for details

Memory

—Non-volatile (data retained with power off):

- Stores 50 test configurations
- Stores 10 screen images for review or comparison
- 8-second buffer memory: adjustable cursor scrolls through entire data buffer to select a range of data points for more in-depth review
- Stores up to 10 reference points

Conductivity Testing/Metal Sorting

- Conductivity and coating thickness measurement at 4 frequencies: 60, 120, 240 and 480 kHz
- Digital readout in 1 to 102 %IACS (0.5 to 70 MS/m)
- Meets BAC 5651 requirements

Autoset Phase/Autoset Gain

- Quickly and automatically set values for probe drive, gain, scale, and rotation. Autoset Phase sets the rotation so that the lift-off signal deflects horizontally to the left from the reference signal.

Frequency

- 50 Hz to 8 MHz
- 2 independent frequency selections to support dual frequency testing

Phase

- Manually adjustable in one- and ten-degree steps from 0° to 359°

Gain Adjustment Range

- Vertical and horizontal scale independently adjustable from 1 to 99

Probe Drive

- Adjustable to six output drive levels
- 50-ohm probe drive (industry standard) provides optimum balance between probe input and instrument output

Filters

- Adjustable high-pass, low-pass, and bandpass filters
- On-screen numeric read-out of cutoff frequency

Alarms

- Audio alarm with adjustable volume
- Visual LED alarm
- Alarm area is shown on the display; alarm box size and positioning are independently adjustable
- Alarms can be set for all display modes, as well as for conductivity limits
- In XY, YT, and Bar Graph display modes, alarm can trigger either inside or outside of the gated area
- TTL, visual, and adjustable audio output alarms are provided
- Headphone outputs

Probe Configuration

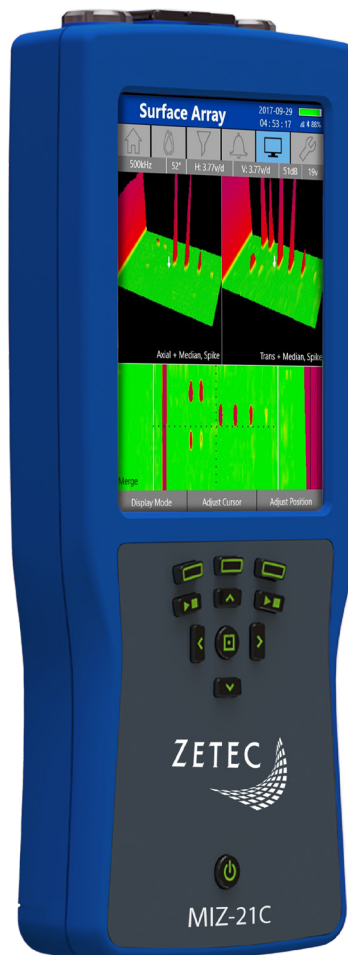
—Internally switches to interface with all standard probe configurations

- Single
- Differential (selectable internal or external balance load for single-coil operation)
- Reflection (Driver-Pickup)
- Differential Driver-Pickup

— **MIZ[®]-21C** —

The Most Advanced Handheld With Surface Array Capability

**TRULY AFFORDABLE
EDDY CURRENT**



Truly Affordable Eddy Current

Introducing MIZ[®]-21C, the most advanced handheld instrument with surface array capabilities. The truly affordable MIZ-21C is ideal for aerospace, oil & gas, manufacturing and power generation applications. Its ergonomic design, long battery life and intuitive touchscreen mean you can inspect more areas faster than ever without fatigue. The MIZ-21C is compatible with a wide range of probes and scanners and comes in three models to meet your unique inspection needs and budget.

Designed for a Wide Range of Applications.

MIZ-21C delivers an inspection advantage across numerous inspection applications including:

Detecting Cracks Near Fastener Holes. Pencil probes are ideal for detecting small cracks in close proximity to fastener holes. The inspector uses a known crack or notch standard to set up the MIZ-21C signal display. Then, while scanning the test piece, the inspector can estimate the depth and length of surface cracks by comparing the phase and amplitude of the generated eddy current signal to the standard's signal.

Multi-Layer Corrosion Inspection. Identifying corrosion is one of the most critical and complex aspects of airframe inspections. Changes in skin thickness as well as varying multi-layer structures usually make it difficult to recognize signals. The MIZ-21C has the power to penetrate thick sections. Exceptional signal-to-noise ratio helps inspectors distinguish even a small loss of material. Dual-frequency with mixing nearly eliminates the unwanted signals caused by varying air gaps between layers that can "mask" the signal of interest.

Conductivity and Coating Thickness Measurement. Use digital conductivity measurements (resistivity) to characterize/sort materials. Directly measure the conductivity of metals and alloys, such as aluminum structures, using dedicated conductivity probes that have a broad operating frequency range. Or measure a nonconductive coating such as paint. The MIZ-21C offers a wide measurement range for both conductivity and thickness.

Save Time & Money.

MIZ-21C is a fast, highly portable and cost-effective replacement for Liquid Penetrant Testing (PT) and Magnetic Particle Testing (MT) inspections. The surface array option can reduce inspection time by up to 95% versus pencil probes. MIZ-21C's intuitive touchscreen and simple, yet powerful embedded software gets users inspecting in no time, offering quick set-up and hassle-free operation.

Inspect More Areas.

The MIZ-21C is designed for user comfort. It can be held for twice as long as other Eddy Current portable devices. The small form factor enables users to inspect hard-to-reach areas and components that other instruments can't. MIZ-21C brings the power of surface array to places it has never been before.

Improve Flaw Detection.

MIZ-21C features an industry-leading signal quality providing up to 25% better flaw detection capability. When coupled with surface array, users can be confident that MIZ-21C will deliver the most thorough inspection in its class.

Specifications

Specifications in this document are subject to change

FEATURE	
Size (H x W x D)	267 x 122 x 38 mm (10.5 x 4.8 x 1.5 in)
Weight (including batteries and cover)	1.22 kg (2.7 lb)
Multi-Touch Display	5.7 in (480 x 640 pixels)
Battery Life	8 hr per charge
Eddy Current Connector	18-Pin Lemo
Eddy Current Array Connector	26-Pin Lemo
Connectivity	USB 2.0, Wi-Fi, Bluetooth
Encoders	2 axes, quadrature
Probe Recognition and Setup	Automatic, Zetec Coil ID Chip
Coil Inputs	MIZ-21C-SF: 1, MIZ-21C: 1, MIZ-21C-ARRAY: 3
Frequencies Per Timeslot	MIZ-21C-SF: 1, MIZ-21C: 2, MIZ-21C-ARRAY: 2
Data Channels	MIZ-21C-SF: 32, MIZ-21C: 64, MIZ-21C-ARRAY: 192
Maximum Probe Coils	MIZ-21C-SF: 2, MIZ-21C: 2, MIZ-21C-ARRAY: 32
Frequency Range	5 Hz to 10 MHz
Generator Output	Up to 19 Vpp
Injection Modes	Continuous and Super-Multiplex
Receiver Gain	10 – 53 dB, 43 dB range
Data Resolution	16 bits
Acquisition / Sampling Rate	Up to 25,000 per second
Probe Drive	50 Ohm
Filters	Adjustable CC, Median, High Pass, Low Pass, Bandpass, Spike
Alarms	Adjustable Box, Audio adjustable volume, Headphone support
Conductivity Frequency	60, 120, 240 and 480 kHz
Conductivity Specification	Digital readout in 0.9 to 110 %IACS (0.5 to 70 MS/m), Accuracy within $\pm 0.5\%$ IACS from 0.9% to 65% IACS and within $\pm 1.0\%$ of values over 65%
Non-Conductive Coating Thickness	Can measure non-conductive coating thickness from 0 mm to 1.000 mm. Accuracy of 0.025 mm (± 0.001 in.) over a 0 mm to 0.64 mm range
Rotating Scanner	MIZ-21C-SF: No, MIZ-21C: Yes, MIZ-21C-ARRAY: Yes Zetec Rotating Scanner, Others
Maximum Data File Size	60 MB
Languages	English, Spanish, French, German, Chinese
Storage	8 GB SSD Internal, Any size through USB expansion
Instrument Calibration	ISO/IEC 17025:2005, Meets or exceeds manufacturer's requirements

Smart Features

MIZ-21C is Packed With Features for an Inspection Advantage.

- **Surface Array in a Handheld.** Cost-effective, highly portable solution that delivers significant advantages over Liquid Penetrant Testing (PT) and Magnetic Particle Testing (MT).
- **Increase Uptime, Wherever You Go.** Features a minimum eight-hour battery life so users can operate the unit for an entire shift without recharging.
- **Ergonomic Design.** Small, lightweight and comfortable to handle in tight spaces. MIZ-21C minimizes arm fatigue common with other portable instruments.
- **Intuitive Touchscreen.** Quickly rotate, zoom and pan using the two finger capacitive display. The onscreen keyboard further increases user efficiency.
- **Universal Symbol Buttons & Multi-Language Software.** One model for worldwide use and deployment. Universal symbol buttons handle all functions and are ideal for gloved inspections.
- **Flexible Connectivity.** Interface and transfer files through USB, Wi-Fi, and Bluetooth technology.
- **Built for Demanding Environments.** Temperature rated for most outdoor conditions. Drop and vibration tested for rugged use.
- **Standard ¼-20 Fitting.** Connect thousands of off-the-shelf accessories for expanded functionality.

AVAILABLE IN THREE MODELS

Feature	MIZ-21C-SF	MIZ-21C	MIZ-21C-ARRAY
Conductivity	✓	✓	✓
Single Frequency	✓	✓	✓
Dual Frequency		✓	✓
Rotating Scanner		✓	✓
Eddy Current Array			✓

COVER AND STAND INCLUDED!

Removable cover with adjustable hand straps and stand is included with all models for added protection, convenience and extended operation.



Adaptable to Meet Your Needs

MIZ-21C offers a range of accessories designed to meet your specific inspection needs.

ZM-5 Rotating Scanner for Small Diameter Holes.

Zetec's ZM-5 High-Speed Scanner is a convenient handheld tool designed for rapid and thorough inspection of small diameter holes, such as bolt hole and fastener holes. With an ergonomic design, the ZM-5 enables inspection of the hardest to reach areas. A rotating transformer couples the eddy current signals for an improved operating life over conventional slip rings. The ZM-5 uses a quick-disconnect cable design for easy replacement. Through adapters the MIZ-21C can drive other manufacturers' rotating scanners.

Surf-X™ Array Probes for Faster Flaw Detection.

Introducing the Zetec Surf-X line of surface array probes. Featuring a unique flexible circuit design and proprietary X-Probe™ technology, Surf-X array probes can lower total cost of ownership while providing excellent data quality as well as faster, safer inspections when compared with other inspection methods.



Inspecting Corrosion or Cracking in Pipes, Pressure Vessels, or Tanks. Surf-X flexible array probes can conform to gradual changes in the geometry of pipes, pressure vessels, or tanks to detect surface and sub-surface flaws in a variety of materials including aluminum and stainless steel. Corrosion is a common flaw in non-pressurized components, while stress corrosion cracking is common in components subjected to sustained tensile stress in a corrosive environment. The Surf-X array probe can easily detect the locations of both types of defects using the high precision embedded encoder to track position.

Assessing and Sizing Cracks in Raised Welds and Friction Stir Welds. Surf-X flexible array probe can also conform to geometry changes associated with raised welds to simultaneously inspect for axial and transverse cracking in the weld cap, toe, and heat-affected zones. Surf-X array probes use position indicators on the probe to help with alignment to ensure the entire area of interest is inspected. The flexible nature of the Surf-X array probe allows for the inspection of flat surfaces including friction stir welds. The long-life wear surface has been tested to 10,000 ft, and is an inexpensive field replaceable component.



Small size. Easy to hold.

General Specifications

Voltage: 100 to 240 VAC, Auto-Switching

Frequency: 50 to 60 Hz

Output Voltage: 15 VDC

Maximum Power: 40 W

Operating Temperature Range: -10°C to 45°C (14°F to 113°F)

Storage Temperature Range: -20°C to 70°C (-4°F to 158°F)
(w/out batteries)

Relative Humidity: 95% non-condensing

CE mark is an attestation of the conformity with all applicable directives and standards of the European Community. WEEE, RoHS.

Accessories Ordering Information

111A801-00 - ZES-ADP-MIZ-21C_26-PIN_TO_26-PIN_SURF-X_ARRAY_PROBES_6FT

6 ft detachable cable from MIZ-21C 26-Pin Lemo to 26-Pin Lemo Surface Array Probe

111A802-00 - ZES-ADP-MIZ-21C_18-PIN_TO_12-PIN_GE_SCANNER_6FT

6 ft detachable cable from MIZ-21C 18-Pin Lemo to 12-Pin Lemo Rotating Scanners

111A803-00 - ZES-ADP-MIZ-21C_18-PIN_TO_16-PIN_OLYMPUS_SCANNER_6FT

6 ft detachable cable from MIZ-21C 18-Pin Lemo to 16-Pin Lemo Rotating Scanners

111A804-00 - ZES-ADP-MIZ-21C_18-PIN_TO_MICRODOT_PROBES_6FT

6ft detachable cable from MIZ-21C 18-Pin Lemo to Coaxial Microdot Probes

111A805-00 - ZES-ADP-MIZ-21C_18-PIN_TO_TRIAX_PROBES_6FT

6 ft detachable cable from MIZ-21C 18-Pin Lemo to Triaxial Fischer Probes

111A806-00 - ZES-ADP-MIZ-21C_18-PIN_TO_3-PIN_ZETEC_PROBES_6FT

6 ft detachable cable from MIZ-21C 18-Pin Lemo to 3-Pin Zetec Probes

111A807-00 - ZES-ADP-MIZ-21C_18-PIN_TO_4-PIN_FISCHER_PROBES_1FT

1 ft detachable cable from MIZ-21C 18-Pin Lemo to 4-Pin Fischer Probes

111A810-00 - ZES-ADP-MIZ-21C_18-PIN_TO_18-PIN_ZETEC_SCANNER_6FT

6 ft detachable cable from MIZ-21C 18-Pin Lemo to 18-Pin Lemo Zetec Rotating Scanners

Environmental Tests

As per MIL-STD-810G

Cold Storage - 502.5 procedure I

Cold Operation - 502.5 procedure II

Heat Storage - 501.4 procedure I

Heat Operation - 501.4 procedure II

Temperature Shock - 503.5 procedure II

Vibration - 514.6 procedure I

Transit Drop - ISTA 1G

Drop Test - 516.6 procedure IV, 1.2 m (4 ft) with cover

Specifications included in this document are subject to change.

Ordering Information

111A901-00 - ZES-HHT-MIZ-21C-SF

Fully integrated single frequency handheld Eddy Current system featuring 1 input and 32 active channels on up to 2 coil probes. Supports Conductivity. System purchase includes: MIZ-21C unit, 2 battery packs, AC adapter, cover, stand, USB flash drive with user manual, certification, and hard carrying case.

111A902-00 - ZES-HHT-MIZ-21C

Fully integrated dual frequency handheld Eddy Current system featuring 1 input and 64 active channels on up to 2 coil probes. Supports Conductivity and Rotating Scanner. System purchase includes: MIZ-21C unit, 2 battery packs, AC adapter, cover, stand, USB flash drive with user manual, certification, and hard carrying case.

111A903-00 - ZES-HHT-MIZ-21C-ARRAY

Fully integrated dual frequency handheld Eddy Current system featuring 3 inputs and 192 active channels on up to 32 coil probes. Supports Conductivity, Rotating Scanner, and Surface Array. System purchase includes: MIZ-21C unit, 2 battery packs, AC adapter, cover, stand, USB flash drive with user manual, certification, and hard carrying case.

111A904-00 - ZES-HHT-MIZ-21C-SF_WIRELESS-LOCKED

Wireless locked version of MIZ-21C-SF.

111A905-00 - ZES-HHT-MIZ-21C_WIRELESS-LOCKED

Wireless locked version of MIZ-21C.

111A906-00 - ZES-HHT-MIZ-21C-ARRAY_WIRELESS-LOCKED

Wireless locked version of MIZ-21C-ARRAY.



InSite HT & CT

Eddy Current Test Instruments

FEATURES & BENEFITS

- ▶ **Easy to use interface** makes it easy to set-up and operate
- ▶ **Reduces scrap and warranty costs** by finding issues during production
- ▶ **Tests for proper** heat treatment, case depth and material mix
- ▶ **Fast sampling capability** (milliseconds) allows the InSite to keep up with production speeds
- ▶ **Tests multiple locations** at once on complex geometries
- ▶ **Simultaneous testing** using eight frequencies helps sort parts with multiple rejectable conditions
- ▶ **Easy to use set-up** helps ensure detection of material anomalies
- ▶ **Operator uses** known good parts to create testing tolerance zones
- ▶ **Industrial I/O simplifies** material handling integration
- ▶ **Data recording capabilities**
- ▶ **HT-CT Combo Model** gives you both instrument capabilities in one model! The unit can be converted by the user from HT to CT and back at any time using a USB Key.

InSite HT

Find material structure defects including improper heat treatment, case depth and material mix



The Zetec InSite HT eddy current material structure tester helps you find improper heat treatment conditions such as shallow case depth, short heat, misplaced case, delayed quench, short quench, air cooled or no heat treatment. The InSite HT can be used to test for proper heat treatment on simple parts such as ball bearings and fasteners as well as on complex components such as gears, wheel bearings and axles. The automated eight-frequency, multi-channel test set-up allows you to simultaneously inspect for multiple anomalies at different locations on a single component.

InSite CT

Find cracks and flaws on complex components in real time



The Zetec InSite CT eddy current crack and flaw tester is built to operate right on your production line, capturing defects on your critical automotive or medical components. Testing time is measured in seconds or fractions of a second, and integration with material handling systems is simplified using the InSite CT's full industrial I/O capabilities.



Get the capabilities of both testers in one unit and save money with the InSite HT-CT Combo.

InSite HT & CT

Eddy Current Test Instruments

Specifications

Test Method: Multifrequency electromagnetic testing using from 1 to 8 coil pairs.

- **HT**—Up to 8 frequencies
- **CT**—Up to 2 frequencies

Weight: 16.0 lb (7.3 kg)

Dimensions: 8.0H x 11.5L x 13.5D in. (20.3 x 29.2 x 34.3 cm)

Power: 85 - 264 VAC 47 - 63 HZ 140 watts maximum, with all options

Operating Temperature Range: 32°F to 113°F (0°C to 45°C)

Storage Temperature Range: -40°F to 185°F (-40°C to 85°C)

Frequency Range: 5 Hz to 10 MHz

Display: Color 640 x 480 pixel (8.4-in.) active matrix display offers same resolution as computer monitor

Drive: 0 - 20 Vpp

Sample Rate - samples/second

- **HT**—Operator adjustable up to 16,000 s/s for 1 frequency; 4,000 s/s for 4 frequencies
- **CT**—Operator adjustable up to 10,000 s/s, maximum is dependent on the number of timeslots used and the frequencies selected

Alarm

- Tolerance zones available for each coil pair: HT up to 8, CT up to 2
- Visual indications for each alarm on display
- Alarm channels that can be active: HT up to 64, CT up to 16

Memory

- 256 GB internal hard drive
- Flash memory for configurations and firmware updates via USB key
- Non-volatile SRAM memory for storage of instrument settings

Data Recording

- USB Flash Drive, Magneto Optical Disk, Jaz Drive, Zip Drive
- 256 GB internal hard drive

User Interface Language Support

English, French, Italian, German, Spanish, others available by request

Input/Outputs

- Ethernet 10/100BaseT for network interface
- Industrial I/O for PLC Controllers
- VGA—output display to VGA monitor or video output with external converter box
- RS-232
- USB for printer, keyboard, mass storage device

Purchase includes

- InSite Eddy Current Test Instrument
- InSite Operating Guide (English)
- Calibration Certificate
- Power Cords (US and EU versions)
- Shipping Case (Optional)
- 1 Year Warranty



Nine versions available

InSite HT Models:

- **InSite HT-8:** Supports up to 8 eddy current coil pairs
- **InSite HT-4:** Supports up to 4 eddy current coil pairs
- **InSite HT-2:** Supports up to 2 eddy current coil pairs

InSite CT Models:

- **InSite CT-8:** Supports up to 8 eddy current probes
- **InSite CT-4:** Supports up to 4 eddy current probes
- **InSite CT-2:** Supports up to 2 eddy current probes

InSite HT-CT Combo Models:

- **InSite HT-CT-8:** Supports up to 8 eddy current probes. Unit can be converted by the user from HT to CT and back at any time using a USB Key.
- **InSite HT-CT-4:** Supports up to 4 eddy current probes. Unit can be converted by the user from HT to CT and back at any time using a USB Key.
- **InSite HT-CT-2:** Supports up to 2 eddy current probes. Unit can be converted by the user from HT to CT and back at any time using a USB Key.

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