

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.

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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.



Zetec holds ISO 9001 and ISO/IEC 17025 certifications

