

## 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**

#### 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.

# InSite HT & CT

## Eddy Current Test Instruments

### Specifications

**Test Method:** Multifrequency electromagnetic testing in multiplexed and simultaneous injection (SI) modes.

- **Multiplexed mode**—supports 4 test frequencies.
- **SI mode**—Up to 4 frequencies or up to 8 coil pairs (number of test frequencies depends on number of boards installed and coils being used)

**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**

- **Multiplexed mode**—Operator adjustable up to 15,600 s/s for 1 frequency; 3,900 s/s for 4 frequencies
- **SI mode**—Operator adjustable up to 15,600 s/s at 4 frequencies

**Memory**

- 500 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
- 500 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
- VGA—output display to VGA monitor or video output with external converter box
- RS-232—communication to Model III Probe Pusher Control
- USB for printer, keyboard, mass storage device

### Purchase includes

- InSite Eddy Current Test Instrument
- InSite Operating Guide (English)
- Calibration Certificate
- Bobbin Probe Adapter
- USB 512 MB Flash Drive
- USB Keyboard
- Power Cords (US and EU versions)
- Shipping Case
- 1 Year Warranty



## Two models, six versions

### 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



Zetec holds ISO 9001  
and ISO/IEC 17025  
certifications

