

MIZ[®]-28

Eddy Current Inspection For Heat Exchanger Tubing

FEATURES & BENEFITS

- ▶ **Combines both** multiplexed and simultaneous injection (SI) technologies into one box
- ▶ **Easy-to-use controls** with built-in language selection
- ▶ **Automatic voltage switching**
- ▶ **Optional RFT Amplifier** supplies the high drive voltages that generate the stronger magnetic field necessary to find flaws in magnetic tubing
- ▶ **500 GB internal hard drive** provides mass storage of recorded inspection data
- ▶ **Included USB portable flash drive** lets you easily store, transfer, and carry your data. PC compatible USB 1.1/2.0
- ▶ **Data files are compatible** with EddyNetPC/AN, EddyNetSuite Analysis, ET Analysis for Windows, or Velocity[®]/AN Software
- ▶ **Supports test plans** created with Zetec's EIMS-BOP, EddyNetPC/DM, or Velocity/DM software that plans, tracks, and provides professional reports of the inspection
- ▶ **Supports the Zetec High Speed 3D Probe Pusher** with optional conduit gun using a Model III Probe Pusher Control system
- ▶ **Rugged enclosure** ideally suited for heavy-duty use



High-Speed, High-Efficiency

Zetec's MIZ[®]-28 delivers more technology and performance for high-speed, high-efficiency inspection of heat exchanger tubing. Its data management features lead the industry with more on-board data storage and easy file transfer. And the MIZ-28 supports existing Zetec equipment and software already deployed for eddy current inspections.

The MIZ-28 combines both multiplexed and simultaneous injection (SI) technologies into one box that tests most tube materials including magnetic alloys such as carbon steel. Testing with multiplexed frequencies provides the best detection capabilities—from surface cracks to deep flaws—with speed

and reliability. Simultaneous injection eddy current technology offers the highest testing speeds and supports remote field testing (RFT).

Data files acquired with the MIZ-28 can be transferred to a computer for analysis with Zetec's EddyNetPC/AN, EddyNetSuite Analysis, ET Analysis for Windows, or Velocity[®]/AN software. You can easily import test plans created with Zetec's EIMS-BOP, EddyNetPC/DM, or Velocity/DM software that plans, tracks, and provides professional reports of the inspection. The MIZ-28 also supports the Zetec High Speed 3D Probe Pusher with optional conduit gun using a Model III Probe Pusher Control system.

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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

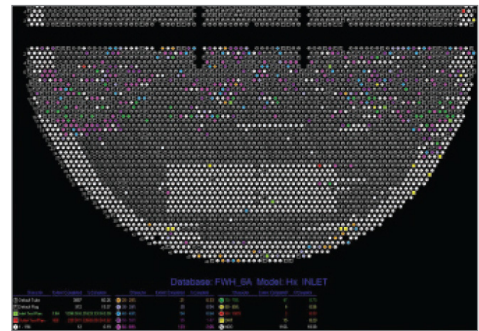
English, French, Italian, German, Spanish, others available by request

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

- MIZ-28 Eddy Current Test Instrument
- MIZ-28 Operating Guide (English)
- Calibration Certificate
- Bobbin Probe Adapter
- USB 16 GB Flash Drive
- USB Keyboard
- Power Cords (US and EU versions)
- Shipping Case
- 1 Year Warranty
- MIZ-28-8 Eddy Current Test Instrument supports up to 8 coil pairs



Zetec's Velocity/DM is inspection management software for organizing, tracking, and creating reports of eddy current inspection.

| CURRENT TEST PLAN | |
|--|---------------------|
| SOURCE: /ata0b/TEST_PLAN/water_box_2.TST | |
| ENTRIES: 20000 | |
| ENTRY | TEST INFORMATION |
| 164 | *S004 R001 T013 F/L |
| 165 | *S004 R001 T014 F/L |
| 166 | *S004 R001 T015 F/L |
| 167 | *S004 R001 T016 F/L |
| 168 | *S004 R001 T017 F/L |
| 169 | *S004 R002 T000 F/L |
| 170 | *S004 R002 T001 F/L |
| 171 | *S004 R002 T002 F/L |
| 172 | *S004 R002 T003 F/L |
| 173 | *S004 R002 T004 F/L |
| 174 | *S004 R002 T005 F/L |
| 175 | S004 R002 T006 F/L |
| 176 | S004 R002 T007 F/L |
| 177 | S004 R002 T008 F/L |
| 178 | S004 R002 T009 F/L |
| 179 | S004 R002 T010 F/L |
| 180 | S004 R002 T011 F/L |

The MIZ-28 imports an inspection Test Plan and displays it for the operator.



Zetec holds ISO 9001 and ISO/IEC 17025 certifications



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