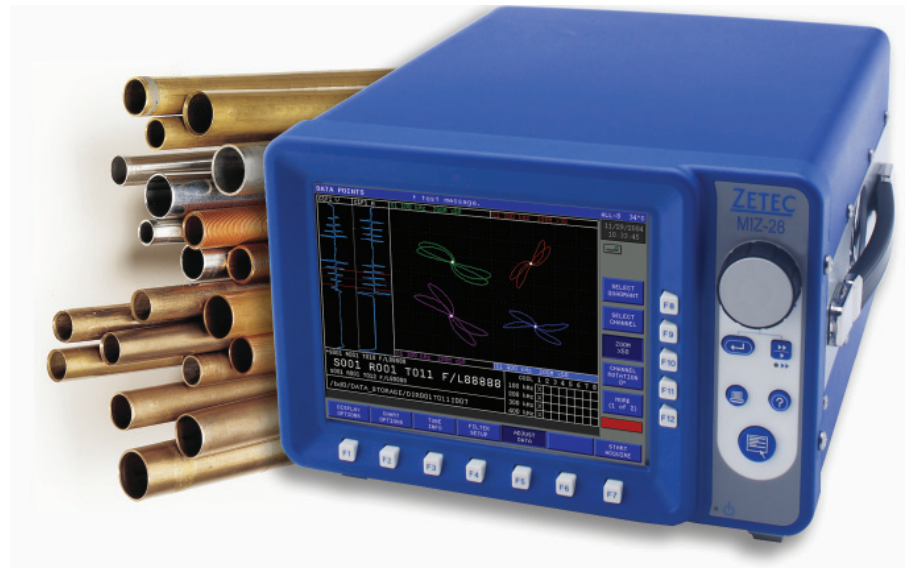


TUBE TESTING WITH THE MIZ[®]-28 EDDY CURRENT INSPECTION FOR HEAT EXCHANGER TUBING

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). The optional RFT Amplifier supplies the high drive voltages that generate the stronger magnetic field necessary to discriminate the flaws from good material in magnetic products.

A 40 GB internal hard drive provides mass storage of recorded inspection data. The included USB portable flash drive lets you easily store, transfer, and carry your data. Pocket-sized and lightweight, flash drives work with any newer PC with an existing USB 1.1 or USB 2.0 port, no drivers required.

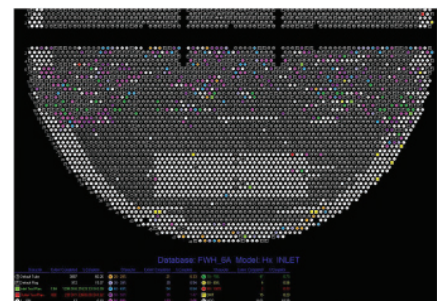


Data files acquired with the MIZ-28 use the same familiar format as the MIZ-27 and can be transferred to a computer for analysis with Zetec's EddyNet[®] Suite Analysis or ET Analysis for Windows[®] software. You can easily import test plans created with Zetec's EIMS-BOP software that plans, tracks, and 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.

The MIZ-28 has easy-to-use controls so operators can start testing tubes immediately. Built-in language selection, automatic voltage switching, and networking enables plants worldwide to share consistent, repeatable test procedures. Housed in a rugged enclosure, the MIZ-28 is ideally suited for heavy-duty use. It's built with highly reliable, compact modular components that are easy to calibrate, troubleshoot, and repair.

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's EIMS-BOP is inspection management software for organizing, tracking, and creating reports of eddy current inspections.

Toll Free 800-643-1771
Phone 425-974-2700
Fax 425-974-2701

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MIZ[®]-28

EDDY CURRENT INSPECTION FOR HEAT EXCHANGER TUBING

Specifications

Test Method: Multifrequency electro-magnetic 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°)

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

- 40 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
- 40 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

Ordering Information

Purchase includes:	<ul style="list-style-type: none"> • MIZ-28 Eddy Current Test Instrument • MIZ-28 Operating Guide (English) • Certification • Bobbin Probe Adapter • USB 512 MB Flash Drive 	<ul style="list-style-type: none"> • USB Keyboard • Power Cord • Shipping Case • 1 Year Warranty*
2800-00-08	MIZ-28-8 Eddy Current Test Instrument	<i>supports up to 8 coil pairs</i>
Options / Accessories		
2800-50-01	Remote RFT Amplifier	
507-3103P	Model III Variable-Speed Probe Pusher Control System—complete system includes Controller (C/N 507-3104), Power Supply (C/N 507-3105), 50-ft Control Cable (C/N 507-3106), Motor Cable (C/N 507-3108) & Operating Guide (C/N 507-3109)	
810-4106	MRPC Motor Power Supply—Adjustable Power Supply for DC Motor Units—includes MRPC Motor Power Supply Cable	
2000-02-01	Rotating Scanner—Includes Carrying Case, Cable, Operating Guide, and 5/16-IN split-coil differential probe	
2800-96-01	MIZ-28 Shipping / Storage Case	
2800-96-02	MIZ-28 / RFT Amplifier Shipping / Storage Case	
2800-08-01	MIZ-28 Operating Guide - CD (English)	
2800-07-21	MIZ-28 Annual Service Maintenance Agreement / Priority Coverage, includes: Standard Calibration / Certification	
2800-07-23	MIZ-28 Annual Service Maintenance Agreement / Priority Coverage, includes: ASFAL Calibration / Certification	

Cables & Adapters	Test Application
940-2810	MIZ-28 Adapter for Diff/Abs Bobbin Probe <i>Bobbin Probe / AC-3 (2 adapters required for AC-3)</i>
940-2820	MIZ-28 Adapter for MRPC 3-Coil <i>MRPC (requires MRPC Probe Controls C/N 810-4193)</i>
2800-30-01	MIZ-28 Adapter for RFT Amplifier <i>Remote Field (RFT)</i>
2800-30-02	MIZ-28 to Rotating Scanner Cable <i>Handheld / Bolthole Scanner</i>

Non-Zetec probes are supported with appropriate adapters. Available by quotation only.

Software

1910-04-11P	ET Analysis for Windows [®] Software with USB Enable Module 32-bit
1910-05-25P	EIMS-BOP with Tubesheet Builder
2010-XX-XX	EddyNet [®] Suite (Contact Zetec about software purchase options that best fit your application.)

* All Zetec manufactured electronic and mechanical products are warranted, to the original purchaser only, against defects in material and workmanship for a period one year from the date of shipment.



ZETEC

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