



MIZ[®]-85iD-4

Advanced Standalone ECT Instrument

FEATURES & BENEFITS

- ▶ Available in a four probe configuration to save space and minimize cables
- ▶ Supports all common steam generator inspection techniques
- ▶ Integral probe interface module (PIM) eliminates the need for probe adapters
- ▶ MIZ-iD *Intelligent Device* technology provides automatic probe configuration validation with MIZ-iD equipped probes
- ▶ Integrated probe pusher control which can be used for automatic acquisition



FLEXIBLE PERFORMANCE

The MIZ-85iD family leverages the industry leading MIZ-80iD eddy current instrument technology into a modular “instrument only” alternative to the integrated all-in-one approach of MIZ-80iD System. The rugged module has a minimal footprint for four instruments and integrates easily in a multitude of inspection system scenarios. The enclosure provides protection from the environment to ensure integrity in electronic performance and allow serviceability throughout the life of the product.

Advanced features such as Auto Tube End Detection improve probe life, while the internal electronic differential reference signal and electronic connector pin

multiplexer eliminate the need for reference probes and common probe adapter cables. These features provide superior data quality and promote better analysis results.

Integration with probe delivery systems is provided through two independent Auxiliary I/O control lines to operate probe pushers such as the 10D probe pusher and provide direct integration with peripheral devices such as probe position encoders. On-board independent web servers allow for network configuration management and instrument calibration. Optional calibration module provides traceability in the calibration process to Bureau of Standards.

MIZ[®]-85iD-4

The MIZ-85iD-4 is available in a four probe configuration. Each MIZ-85iD-4 includes a one year license of Eddytest/AQ acquisition software for steam generator inspections or Velocity AQ for heat exchanger inspections.

General Specifications

- ▶ **Power—Electrical:**
100-240 VAC 50-60 Hz
- ▶ **Operating Temperature Range:**
32°F to 113°F (0°C to 45°C)
- ▶ **Storage Temperature Range:**
-4°F to 140°F (-20°C to 60°C)
- ▶ **Inputs/Outputs:**
1ea RJ-45 Ethernet 10/100Base T
4ea 36 pin probe connectors
1ea Multi-contact Auxiliary Connector
 - Encoder Inputs
 - Start/Stop/Pause/Balance
 - MIZ-iD Bus Extension
- ▶ **Size:** 11.5" H x 16.25" L x 20.4" W
(29.2cm x 41.3 cm x 51.8 cm)
- ▶ **Weight:** 48.5 lbs (22.0 kg)
- ▶ **Compliance:** ASME, JEAG, CE, RoHS

Probe Technologies

- ▶ 4 Probes will be supported at one time. 2x 36pin connectors are provided.
- ▶ An internal electronic probe adapter circuit eliminates the need for probe adapter cables
- ▶ Electronic balance circuit eliminates the need for external reference probes
- ▶ **Bobbin:**
Standard Bobbin
DF Bobbin
- ▶ **MRPC[®]:**
Probe heads up to 8 diff pairs
Brush & Servo motor units
- ▶ **Array:**
MHI Intelligent Probe
X-Probe

Eddy Current Specifications

- ▶ **Frequency Range:** 20 Hz to 1.2 MHz
- ▶ **Drive Modes:**
Multiplexed Mode
Continuous Mode
Super-Multiplexed
- ▶ **Probe Drives:** 8
- ▶ **Drive Voltage:** 0-20Vpp std, 0-60Vpp I-Probe
- ▶ **Input Coil Channels:** 4x 8
- ▶ **Output Channels:** (x4)
40 Continuous Mode
512 Multiplexed Mode
640 Super Multiplexed Mode
- ▶ **Gain:** 23-53 dB in 1 dB steps, variable
- ▶ **Sample Rate:** 10 Hz to 40 kHz
- ▶ **Probe Modes:**
Bobbin Mode
Supports both standard bobbin and DF bobbin probe modes
MRPC Mode
Supports Pancake, +Point and MRPC motor control
Intelligent Probe Mode
Provides 60Vpp drive and probe multiplexer control line
Array Probe Mode
Supports all current X-Probe models

Other Specifications

- ▶ **Automation—Hardware Inputs:**
Differential encoder inputs
- ▶ **System Intelligence:**
Probe & Hardware MIZ-iD Bus
- ▶ **System Diagnostics:**
Built-in Web Server for setup and diagnostics
- ▶ **Networking:**
Single point network connection.
4 separate IP addressed board sets.
- ▶ **Probe Adapter:**
Internal electronic probe adapter
- ▶ **Probe Pusher Control:**
Zetec and non-Zetec
- ▶ **Tube End Detection**
- ▶ **SDK Available**

Zetec: Innovation That Delivers Results

For nearly 50 years, Zetec has advanced NDT standards and science. We provide new insight and control through inspection solutions that protect our customers' most important assets and ensure the quality of their products. By integrating design and engineering with our own manufacturing, Zetec delivers solutions that optimize productivity, safety and total cost of ownership.



Zetec holds ISO 9001 and ISO/IEC 17025 certifications



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