

MFE 1212 Mark II EdgeScan



Features:

- MFE Electronics Module Compatible
- Panasonic ToughBook Compatible
- Displays Digital Volume Loss Signals in real time
- Adjustable Threshold
- Adjustable Display Brightness capable of viewing in sunlight
- Adjustable Gain for improving signal and reducing noise
- Horizontal Guide Wheels
- Pivoting Handle
- Scan speeds up to 3 feet per second
- Doubled Magnetic Material in Bridge
- Perform through coating inspections
- Perform inspections of thicker plate
- 6" Scan Width
- Battery powered for over 12 hours of continuous use
- Powerful Rare Earth Magnets
- Sensors Detect Flux Leakage
- Increased Sensitivity and Accuracy
- Plates up to 3/8" Thickness
- Easy Transportation with Wheeled Case



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Overview

- The MFE 1212 Mark II EdgeScan tank floor scanner gives accurate and consistent MFL inspection results.
- With the addition of horizontal wheels and a pivoting handle, the EdgeScan tank floor scanner fits tight against storage tank shells. This unit saves users time and money as an alternative to scrubbing the critical zone as with ultrasonic testing.
- The Electronic Processing unit provides easy access to all control functions and has been engineered with an improved signal to noise ratio.
- The EdgeScan tank floor scanner folds down for easy transportation and includes a rugged, wheeled case that is great for air shipping.

Great for:

- Above Ground Storage Tanks
- Industrial Wastewater Storage Tanks
- Municipal Wastewater Tanks
- Wastewater Treatment Storage Tanks
- Bolted Storage Tanks
- Fire Protection Water Storage Tanks
- Food Storage Tanks
- Industrial Storage Tanks
- Epoxy-Coated Carbon Steel Tanks
- Mineral Storage Tanks
- Petrochemical Process Tanks
- Petrochemical Storage Tanks
- Petroleum Storage Tanks



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The MFE 1212 Mark II is comprised of the following modules:

Magnetic Bridge

- Provides the necessary flux levels to achieve saturation of the plate thickness.
- Durable wheels at each corner allowing easy maneuverability.
- Additional set of guide wheels are attached to maintain proximity to the shell.

Battery Module

- Contains an 8amp hour sealed gel Lead Acid Battery that is leak proof and can be placed in any orientation.
- The battery can provide power for at least 8 hours of continuous use.
- 3amp fuse is located under the top cover to prevent any damage should a short occur within the power supply wiring.
- Can be quickly and easily removed from the scanner for charging purposes.

Handle Assembly

- Connected to the Magnetic Bridge using two 3/8in bolts, washers, nylock nuts and rests between two sets of shoulder bolts.
- Handle provides mounting points in the form of shoulder bolts and clamping bolts for the Battery Module and the Electronics Module and can be folded in half for transportation.
- When in use it is locked in place using two quick release pins which allows the scanner to be easily tipped onto the rear wheels.
- The handle can be pivoted sideways to ease inspection close to the shell or locked in the straight-ahead position for normal scanning.

Sensor Bar

- Contains an array of sensors across the full width of the scanning head.
- Extends almost to the outer edge of the wheels allowing maximum possible coverage.
- Adjustable wing nuts allow operator to adjust height of the sensors from the inspection surface.

Electronic Module

- Processes the signals from the sensors and displays the data on a twelve channel L.E.D. display panel.
- Module is the same as that for the MFE 2412 Mk II and can be interchanged at will.
- Front panel incorporates the controls for power, gain, alarm, and display brightness.
- Voltage display is incorporated to give a real time battery voltage indication.
- A fuse holder is mounted on back panel and contains a 3amp fuse to protect the electronics in case of a power problem.

Signal cable

- Has 24 pin connectors at both ends for connection to the Sensor Array and Electronic Module.
- Power cable has 2 pin connectors for connecting the Battery Module to the Electronic Module.
- Both are keyed to prevent any possibility of improper connection.



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Specifications

Scan Width	6 Inches
Maximum Single Scan Length	None
Thickness Range	Up to 3/8"
Test Through Coatings	Yes, if non-magnetic
Max Coating Thickness	Floor Plate and Coating up to 3/8"
Real Time Analysis	Yes, 6 channels
Power Requirements	12V Battery
Operation Weight	50lbs
Speed	3ft per second
25ft Extended Signal Cable	Optional
Sensitivity	Adjustable
Soft Carrying Case	Optional