

ABOUT THE MFE PULSEPRO

The MFE PulsePro is a portable non-destructive testing (NDT) system built for rapid, accurate detection of corrosion and wall loss—even through insulation and coatings. Powered by Pulsed Eddy Current (PEC) with optional EMAT and thermal imaging modules, PulsePro delivers a complete triage solution: scan large areas quickly, locate potential defects in real time, and confirm severity with precise thickness data—without halting operations.



KEY FEATURES



Versatile Compatibility

Inspects both ferromagnetic (carbon steel, low-alloy) and non-ferromagnetic (stainless steel, aluminum) metals using dedicated probes.



Shape-Insensitive Detection

Maintains measurement accuracy across complex geometries, elbows, and irregular profiles.



Adaptable Probe System

Offers small, medium, and large probes with optional extension rods (3 m / 9.8 ft or 5 m / 16.4 ft) and 30 m (98.4 ft) cables for hard-to-reach or elevated areas.



High-Coverage C-Scan

Optional six-channel array probe enables continuous scanning and automated C-scan imaging for efficient wall-loss mapping across large surface areas (pipe diameters ≥ 140 mm / 5.5 in).



Extreme Condition Operation

Functions from -200°C to $+800^{\circ}\text{C}$ (-328°F to $+1,472^{\circ}\text{F}$) and penetrates cladding up to 300 mm (12 in) for in-service inspections in harsh environments.



Advanced Probe Design

Features electronic focusing and onboard LCD for real-time status and defect visibility, even in high-noise environments.



Rugged & Field-Ready

IP64-rated, drop-resistant design with 5+ hour battery life ensures reliable performance in demanding field conditions.



Optional EMAT & Thermal

Non-contact wall thickness through 4 mm (0.16 in) coatings—no surface prep. Thermal imaging locates heat loss, insulation damage, or leaks (-20°C to $+400^{\circ}\text{C}$), guiding targeted inspections.

TARGET INDUSTRIES & OTHER USE CASES



Oil & Gas

Inspect insulated pipelines, tanks, and vessels for corrosion under insulation (CUI) without shutdowns.



Power Generation

Monitor high-temperature components in thermal and nuclear plants, even under extreme operating conditions.



Petrochemical & Chemical

Screen large insulated assets for wall thinning and integrity issues without dismantling equipment.



Manufacturing

Perform routine inspections on complex geometries, elbows, and hard-to-reach piping.



Infrastructure

Evaluate the health of metallic structures such as bridges, pressure systems, and industrial piping networks.



COMPLIANCE & INDUSTRY INSIGHTS

The MFE PulsePro helps teams meet industry inspection standards with clear, report-ready data that supports safety audits and maintenance records. It follows standards like GB/T 28705-2012 and NB/T 47013.13-2015, and includes detailed visual outputs for easy documentation.

Field tested in harsh environments, from freezing LNG lines to high-temperature refinery piping, PulsePro delivers reliable results in real-world conditions while keeping operations running.



PRODUCT PAGE

<https://mfe-is.com/product/pulsepro-pulsed-eddy-current/>

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