

The "SCOUT" Corrosion Under Insulation (CUI) Detection System

TesTex has developed an innovative system for the detection of Corrosion Under Insulation (CUI) using our proprietary Off-Surface-Electromagnetic-Technique (OSET).

The "Scout" system allows you to pinpoint the areas that require attention, instead of needlessly stripping insulation or doing random thickness checks,

Advantages and Features

- One or two-man operation
- Portable all-in-one electronics with 10.1" (257 mm) sunlight-readable touch screen
- AC or DC power
- A true scanning technique with high throughput
- Light-weight scanner design that fits most piping, vessels, and tanks (starting at 2" (50.8 mm) diameter piping and ranging up to flat surfaces)
- Scans through <u>stainless steel</u> and <u>aluminum</u> cladding with insulation thicknesses up to 4" (102 mm)
- Type of insulation (calcium silicate, mineral wool, fiberglass, etc.) has no effect on signal response. The presence of moisture within the insulation also has no effect
- Detects surface corrosion (wall loss, pitting) on piping of any wall thickness and large area I.D. corrosion on schedule 40 piping
- Can locate butt welds
- Encoded data with mapping option
- Multiple wheel sets and quick release pins on the axles allows the versatility of using only one scanner for your inspection needs
- Water Resistant
- Circumferential scanning technique on cladding overlaps to eliminate "reduced sensitivity/dead zones"



Positioning device displaying circumferential position and reference angle to assure straight scans and angular position of the next scan

Detection Capabilities

Cladding Material	Insulation Thickness		
	Wall Loss Detection	Pit Detection*	Weld Detection
Stainless Aluminum	up to 4" up to 3"	up to 3" up to 2"	up to 4" up to 3"

*30% Surface Depth, 1" (25.4mm) Diameter Pit Detection

Options

- Mapping Software
- Extra batteries/chargers
- 75ft. (23m) extender cable
- Specialty calibration pipes with specified defects (a standard pit calibration pipe and a welded calibration pipe is included with system purchase)

The "Scout": Corrosion Under Insulation (CUI) Detection System (continued)

Instrument Specifications

- Dimensions: 12" W (305mm) x 8" H (203mm) x 3" D (76mm)
- Weight: 7.6 lbs (3.45 kg)
- Display: 10.1" (257mm) Capacitive, 10 point multi-touch input Anti-reflective coating Sunlight readable Chemically strengthened tempered glass cover Optically bonded LCD and touch screen
- Connectivity: USB 2.0 Gigabyte Ethernet
- Power: 100-240VAC, 47-63Hz, 1.5-0.6A, or 14.8VDC 10Ah Lithium Polymer (5 hour charge life)
- Frequency Range: 5 to 40 Hz
- Channels: 2 channels (1 Absolute, 1 differential)





Scanner Specifications

- **Technique:** Off Surface Electromagnetic Technique (OSET)
- Dimensions: 5.5" W (140mm) x 2.5" H (64mm) x 8.3" D (211mm)
- Weight: 5.2 lbs (2.36 kg)
- **Cable:** 10ft (3.05m) and 25ft (7.62m) standard with 12 pin right angle lemo connectors, longer cables are available upon request
- Encoders: Quadrature linear encoder and 6 axis positioning encoder
- Wheels: Polyurethane with 95A durometer, extra durable for a much longer life
- **Coverage:** 3" (76.2mm) wide scanning path



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