

# Echo E58D1 High Temperature Corrosion Mapping and Thickness Gauging Transducer

## Dual Element Transducer for Use at Temperatures from -50 to 1000 F / -45 to 538 C

- No cooling requirements, maximizing productivity and minimizing down-time or outages with in-service inspection.
- No premature probe failures from heat exposure.

### Application:

- Measure wall thickness from 1 to 500 mm with most manufacturer's thickness gauges on hot assets, in-service, without shutdown.
- Better data from easier and more accurate calibration at asset temperature.
- Increased wear and temperature resistance for the most extreme environments and applications.
- Accessories including connector guard, port inspection wand and Cool Hand™ Housing for extreme temperatures and operator safety.
- Compatible with all ultrasonic gauges and flaw detectors.
- Compliant to EN 12668:2 and ASTM E/1065 to meet existing asset integrity UT procedures.
- Acoustic characteristics certificate of conformity supplied with each unit.



PARAMETER	VALUE
Surface Temperature Range	-50 to 1000 F / -45 to 538 C
Storage Temperature Range	-50 to 176 F / -45 to 80 C
Tip Diameter	11 mm / 0.434 inches
Connector Type	Microdot (straight)
Transducer Center Frequency	5 MHz
Active Element Diameter	8 mm / 0.315 inches
Wear Allowance	1.5 mm / 0.06 inches
Range in Steel (with Compatible Gauge)	1 to 500 mm / 0.04 to 20 inches
Echo to Echo Range in Steel	2.5 to 50 mm / 0.1 to 2 inches



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## E58D1 TRANSDUCER ACCESSORIES



### COOL HAND™ HOUSING P/N: E58D1-PWK

**Function:** Facilitates a good grip on the transducer while providing thermal management for the transducer and the inspector's hand as the transducer heats. *The transducer can attach and detach from the Cool Hand without removing the cable connector guard or cable.*



- Snaps on/off in seconds - no tools required!
- For continuous high temperature performance up to 1000° F/538° C.
- Provides 3 times the radiant transducer cooling and ½ the thermal heat conduction to hands compared to other housings.

*The Cool Hand performance technology edge is in the transducer retention spring made from a high temperature alloy designed to withstand continuous use at 650°F and intermittently up to 1000°F without losing tension.*

### CONNECTOR GUARD P/N: E58D1-CG

**Function:** Attaches to Echo transducer E58D1. Protects Microdot connectors, adapts Echo Transducer E58D1 to many cables and strain reliefs. When installed on Echo cables, the connector guard transfers mechanical stress from the transducer connectors to the connector guard, prolonging cable life.



- Protects microdot connectors and provides cable management
- Adapts microdot cable assemblies and strain relief to the E58D1 transducer

To install on existing cables, bend one connector 180° and remove cable from its existing connector. Then, slip the cable ends, with one still folded over, through the back, small end of the Echo Connector Guard.

**ECHO** ultrasonics/|

The  
couplant  
experts

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