

Industrial

Weld Probes



EVIDENT

Introduction to Weld Probes

Weld probes offer a cost-effective method to inspect in-service ferrous welds. This inspection method is a clean, nonhazardous alternative over magnetic particle inspection, as it does not require the removal of coatings such as paint or oxidation. Weld probes offer sensitivity to flaws in varying orientations and can also be used as general-purpose surface probes on any ferrous material. These probes are manufactured with unshielded, cross differential coils.

Specifications

- Standard housing type
- Useable to 150 °C (350 °F)
- Various connector options (see below)
- Various length, tip radius, and frequency options
- Typically used for Steel - Potential use on other alloys.

Straight and Right Angle Weld Probes

Part Number (Item Number)	Angle	Tip Radius	Overall Length	Frequency	Connector
WLD-5-63 (U8690018)	Straight	5 mm (0.196 in.)	63 mm (2.4 in.)	100–600 kHz	4-pin LEMO
WLD-5-63-TF (U8690046)	Straight	5 mm (0.196 in.)	63 mm (2.4 in.)	100–600 kHz	Triaxial
9403362 (U8629270)	Straight	5 mm (0.196 in.)	63 mm (2.4 in.)	100–600 kHz	7-pin LEMO
WLD-8-55 (U8690019)	Straight	8 mm (0.31 in.)	55 mm (2.16 in.)	100–600 kHz	4-pin LEMO
WLD-8-55-TF (U8690047)	Straight	8 mm (0.31 in.)	55 mm (2.16 in.)	100–600 kHz	Triaxial
WLD-32-76 (U86250142)	Straight	32 mm (1.26 in.)	76 mm (3.0 in.)	50 kHz–1 MHz	4-pin LEMO
WLD-32-76-TF (U8250142)	Straight	32 mm (1.26 in.)	76 mm (3.0 in.)	50 kHz–1 MHz	Triaxial
9403519 (U8250163)	Straight	32 mm (1.26 in.)	76 mm (3.0 in.)	50 kHz–1 MHz	7-pin LEMO
WLD90I-5-50 (U8690022)	Right Angle	5 mm (0.196 in.)	50 mm (1.97 in.)	100–600 kHz	4-pin LEMO
WLD90I-5-50-TF (U8629542)	Right Angle	5 mm (0.196 in.)	50 mm (1.97 in.)	100–600 kHz	Triaxial
9403373 (U8629539)	Right Angle	5 mm (0.196 in.)	50 mm (1.97 in.)	100–600 kHz	7-pin LEMO
WLD90I-8-50 (U8690023)	Right Angle	8 mm (0.31 in.)	50 mm (1.97 in.)	100–600 kHz	4-pin LEMO
9403374 (U8690038)	Right Angle	8 mm (0.31 in.)	50 mm (1.97 in.)	100–600 kHz	7-pin LEMO
WLD90I-8-50-TF (U8690048)	Straigh	8mm (0.31 in.)	50mm (1.97 in.)	100-600kHz	Triaxial

Specialty Weld Probes

Specialty weld probes are used for nonferrous metal inspection.

Specifications

- Frequency range: 100 kHz–2 MHz
- Connector: Triax Fischer/LEMO connector

Specialty Weld Probes

Item Number	Part Number
Q2502239	WLD-8-55-TF-NFE (XEWE-00003)
Q2500433	WLD-5-63-TF-NFE (XEWE-00004)

High Temperature, Long Wear, and Waterproof variations available upon request.

Probe Connector Types

Instrument	4-pin LEMO	Triaxial
NORTEC 500, NORTEC 600, or NORTEC 2000 Series	CN16-4L-6 (U8800276)	9122244.00 (U8800091)
Hocking/Phasec (12-pin LEMO)	N/A	9122200.00 (U8800276)

Weld Inspection Kits

Housing Type	4-pin LEMO	Triaxial	7-pin LEMO
Standard	NEC-8196 (U8670016)	NEC-8196-TF (U8670135)	NEC-8196L (U8670018)

High Temperature and Long Wear kits available on request

Each kit¹ contains one each of the following probes and accessories in a shipping/storage case:

- Weld probe (WLD-5-63)
- Weld probe (WLD-8-55)
- Paint probe (NEC-2236)
- Surface-crack reference standard (SRSM-51020S-WLD)²
- Weld sample (WLD-SAMPLE)³

¹ Kit contents shown are for reference only and will be configured with the part numbers that correspond to the housing and connector type desired.

All kits include the standard version of the paint probe (NEC-2236).

² Depth of the electrical discharge machine notch (EDM) notches contained in this reference standard are traceable to NIST.

Item includes the calibration certificate.

³ This sample contains EDM notches but is not certified. This item does not include a calibration certificate and is for reference only.

Note: Items are steel, and steps should be taken to minimize rust on these items during storage. Evident is not responsible for rust damage after initial use. We suggest a light coating of mineral oil or an equivalent be applied to these items after each use.

Labeled Replacement Parts

Weld Surface Reference Standard (Steel) - SRSM-51020S-WLD (U8860571)

Weld Sample Standard with EDM Notches - WLD-SAMPLE (Steel) - (U8860581)

WLD-SAMPLE-316SS (Q8600059)

OmniScan to Triax Fischer/LEMO weld probe cable - COS-TF-6 (U8800284)



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