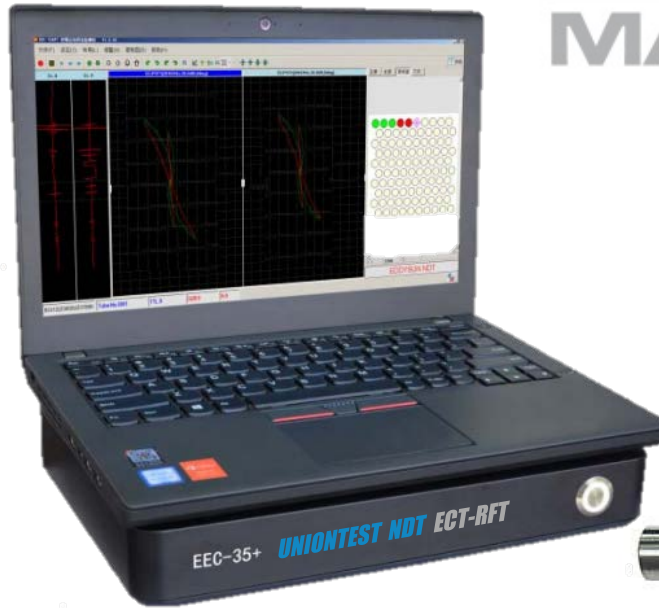




union**TEST**
MARPOSS

MULTI-CHANNEL INSTRUMENTATION EEC35+ECT-RFT



GENERAL DESCRIPTION

This powerful ECT-RFT tool has been designed with two separate channels and 4 frequencies, mixing unit and tube sheet mapping. It is widely used for the inspection of small pipes, heat exchange pipes and boiler pipes, mainly for non-ferrous materials.

The mapping of the pipe layer draws the pipe layout and marks the result of the test with different colors. The mixing unit removes the signal from the support plate and leaves only the fault signal. Inspection settings for different applications can be stored in files and recalled simply when needed. Furthermore, it is possible to generate different types of reports for analysis and registration.

ADVANCED SPECIFICATIONS

- High-precision inspection of defects, such as cracks, scratches, holes and so on.
- 4 impedance plans and real-time graphs
- Operational suggestions and the help function can be called up to view relevant information
- Parameters can be stored in advance and easily recalled for inspection when needed
- Connectors for Notebook, Encoder, alarm and start in for push Puller.

ASSISTANCE WITH REMOTE SERVER FOR ANY PROBLEM





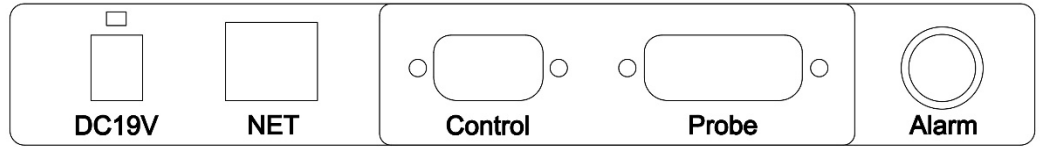
ISO 9001
ACSQ
Certification Body

MULTI-CHANNEL INSTRUMENTATION EEC35+ECT-RFT

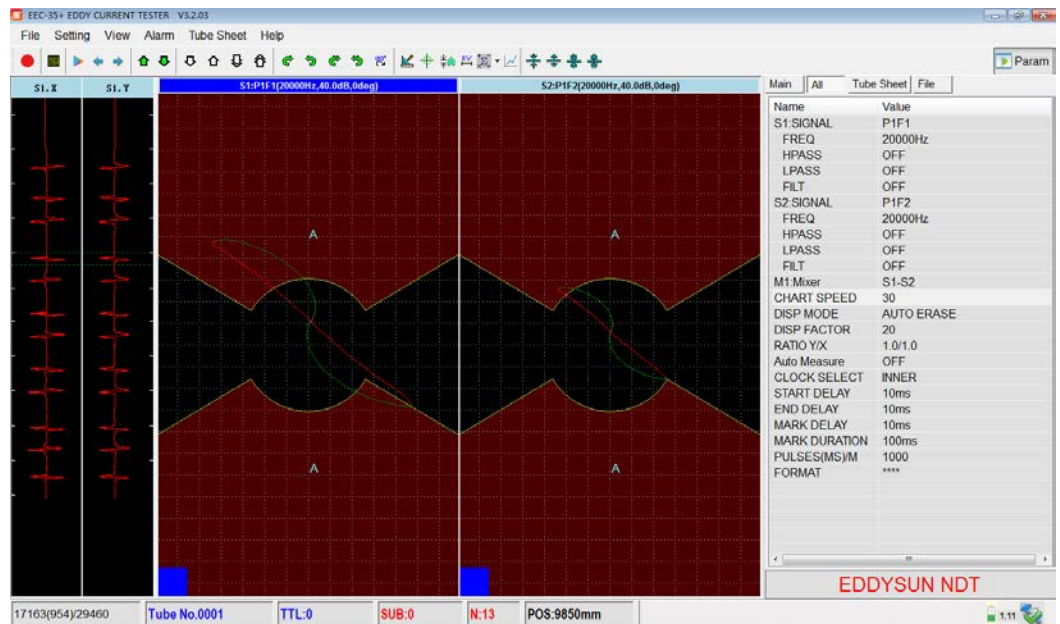
SPECIFICATIONS

| | |
|-------------------------------|--|
| Battery | Lithium battery, 8 hours working time for each recharge |
| canaled | 2 channels - 1 Absolute - 1 Differential - 2 Mix |
| Requency | 2 frequencies per 64Hz-5MHz channel |
| Mixing unit | Mixing unit to suppress signal noise at a constant frequency |
| Tube sheet mapping | The mapping of the tube sheet draws according to the actual layout and the test result is marked with different colors |
| Calibration | Calibration on known defects and automatic generation of the calibration curve. Calibration data can be saved and recalled simply when needed. |
| Type probe | Differential, absolute, RFT, DP, coil winding, pencil, flat, array, etc. |
| Display | Real-time graph, impedance plane, tube sheet display |
| Report | Automatic generation of reports in different formats |
| Exit alarm | A hardware output alarm with OC gate triode |
| Gain | 0-90 dB in 0.5 dB steps |
| Phase | 0-359 ° in 0.1 ° steps |
| Gain Ratio (Y / X) | 0.1-10 |
| Impedance display mode | Point, Line, Automatic. |
| Filter | High pitch: 0-500 Hz; High pass: 10-10000 Hz; Digital: 1-100 |
| Voltage level control | 1-8 levels |
| Coordinates in the Background | Rectangular coordinates, polar coordinates |
| Power | Integrated lithium battery (14.8V, 5.7AH) |
| Standard | ASTM, JB/T4730.6-2005, DLT 883-2004 etc. |
| Balancing | Fast digital / analog and electronic balance |
| Language | English |
| Operating temperature | -20°C a 55°C |
| Instrument dimensions | 2.0kg; 290mm x 210mm x 42.5mm |

BACK PANEL

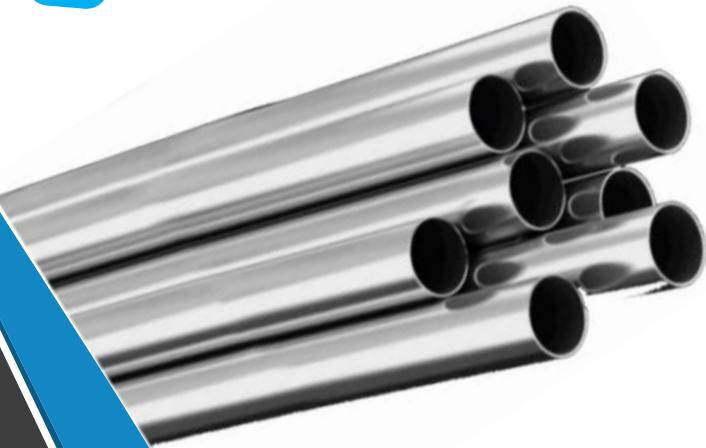


- A. Power supply AC input socket
- B. Charge light. The light will be yellow during charging.
- C. Communication connector. Connect the instrument and the laptop.
- D. Control signal connector, as A-scan encoder etc.
- E. Probe or probe connector.
- F. Alarm connector



EDDYSUN NDT

MULTI-CHANNEL INSTRUMENTATION EEC35+ECT-RFT



DISPLAY SETTINGS

Properties

D1 Coordinate: ☐ None ☒ SQU ☐ Polar

D2 Coordinate: ☐ None ☒ SQU ☐ Polar

D3 Coordinate: ☐ None ☐ SQU ☐ Polar

D4 Coordinate: ☐ None ☐ SQU ☐ Polar

D5 Coordinate: ☐ None ☐ SQU ☐ Polar

D6 Coordinate: ☐ None ☐ SQU ☐ Polar

D7 Coordinate: ☐ None ☐ SQU ☐ Polar

D8 Coordinate: ☐ None ☐ SQU ☐ Polar

Display and background color

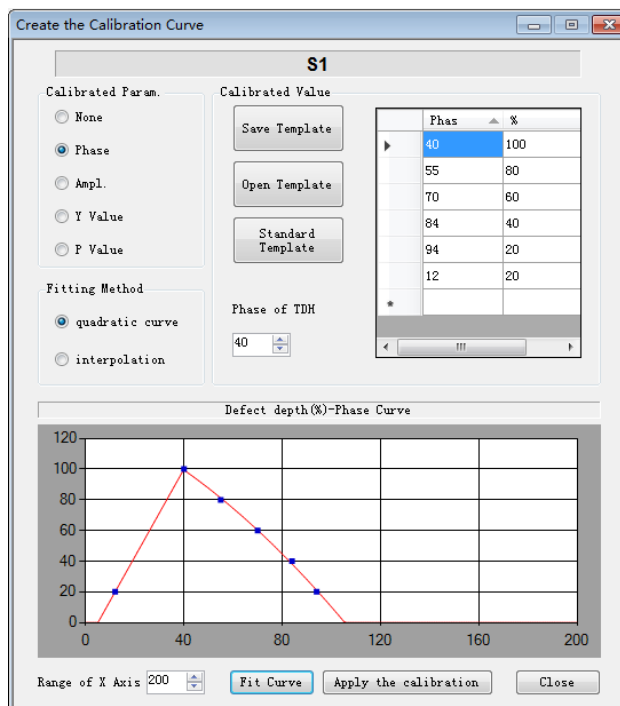
Imped. Line **Imped. Line 2** **Expand Rect.**

Background **Coordinate**

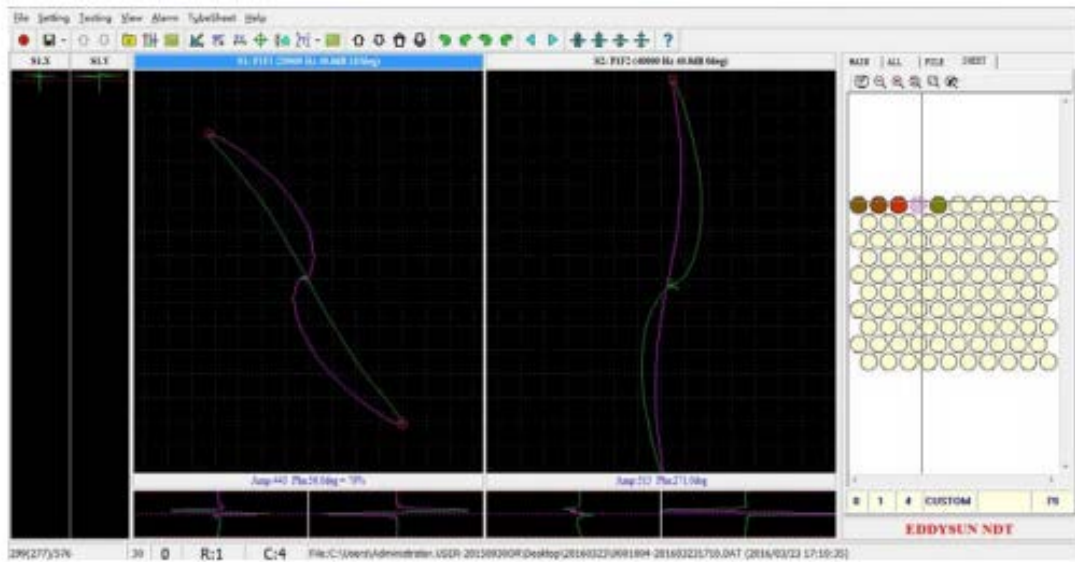
OK Cancel

The user can set the display characteristics of the impedance plane windows, including the background (three types of background, that is, without any special background, rectangular coordinates and polar coordinates), signals to Eddy Current / RFT, the color background, etc. To avoid confusion, the user does not have to set the same color

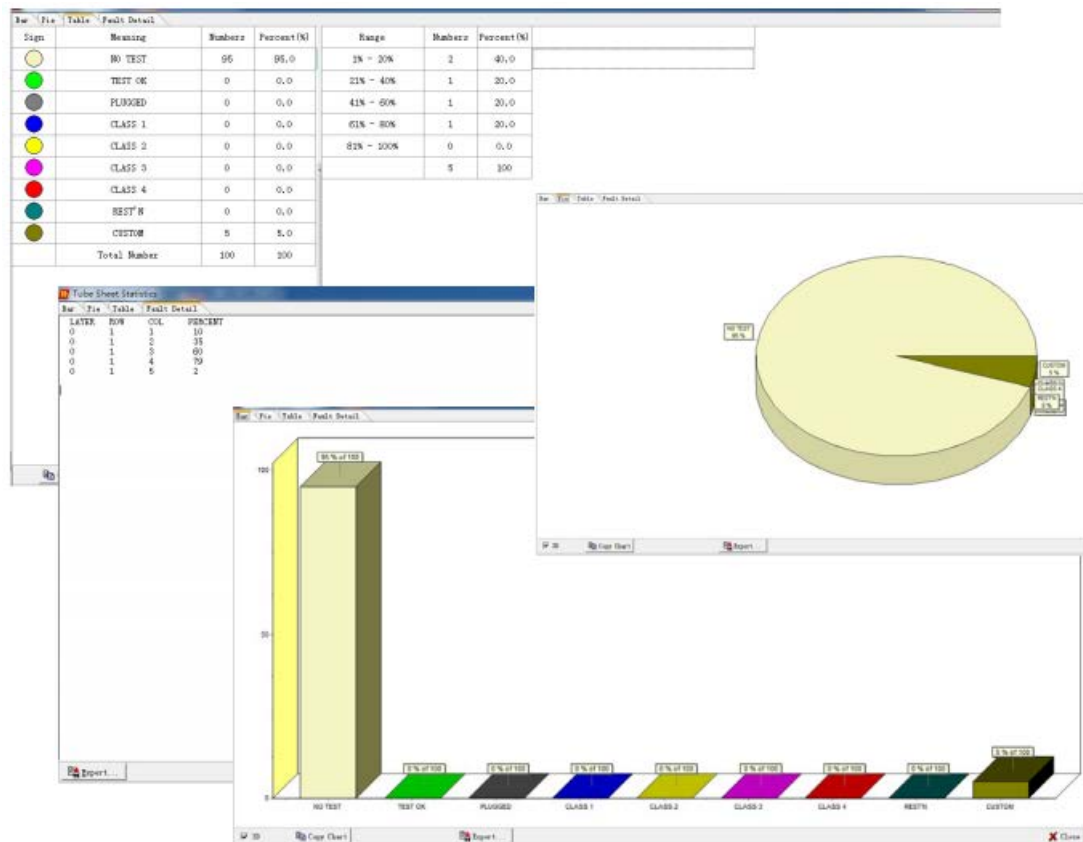
CALIBRATION CURVE



The eddy current test is a relative test method. For the same defect, there will be different forms of eddy current signals for different parameters. To obtain the size of the defects through the eddy current signal, it is necessary to calibrate the defects of the comparative samples, and then calculate the relative dimension by comparing the defect signals of the products tested with the defects of the comparative samples.



Real-time strip chart Impedance plane Tube sheet display with color mapping



Different reports generated for record and further analysis..

MULTI-CHANNEL INSTRUMENTATION EEC35+ECT-RFT

Alarm Mode Setting

S1 S2 M1

Alarm mode

☐ OFF ☒ Phas-Amp ☐ Half Phas-Amp ☐ Amp ☐ Y-value

Alarm area count

☒ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

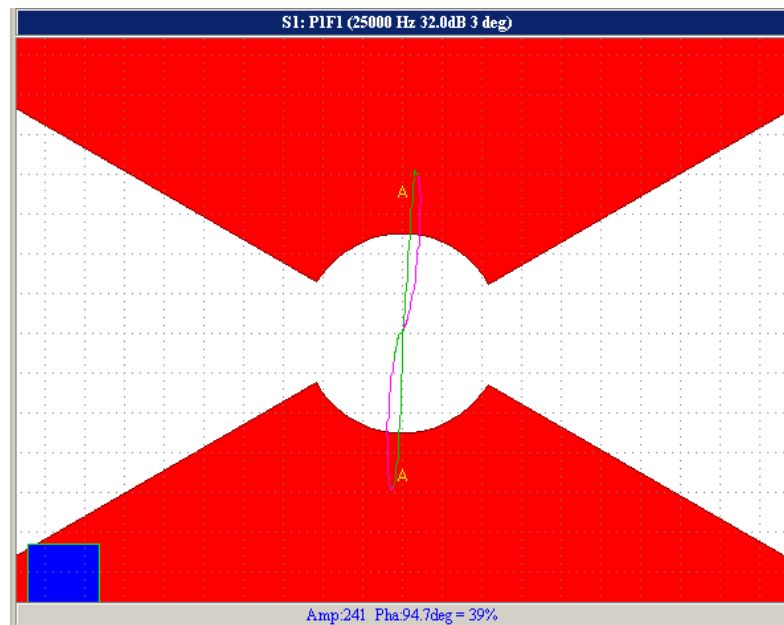
Color

☒ Screen display ☒ Logical output

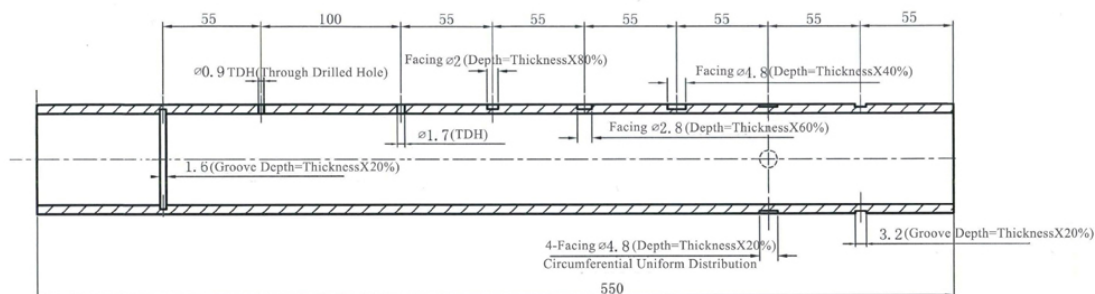
Apply

Apply to all Save all Close

It is possible to set the alarm for the display window of each impedance plane. The size of the alarm zone is related to the test standards of the relevant samples. Each display window can be set mostly 8 alarm windows.



TUBE ACCORDING TO ASME/ASTM STANDARDS





WIDELY USED FOR

- Inspect carbon steel and non-ferrous heat exchanger tubes, small pipeline, boiler tubes
- Crack detection for aircraft components, auto parts, axles, machine parts, bolts and so on
- Surface inspection for welds with or without coating
- Sort different heat treatment conditions and different materials .

PURCHASE INCLUDES

- EEC-35+ECT-RFT instrument
- Lap top PC Windows 10 Pro.
- Open software with the possibility of installation on any computer with Windows 10.
- Standard sample tube for instrument calibration
- Standard inserted ECT probe for sample tube
- Probe converter adapters connections Lemo 12 pin, Lemo 00 (absolute), BNC, Amphenol 4 pin.
- Communication cable
- Instrument case
- Testing software backup
- User manual
- Quality certificate
- One year warranty

COMPLETE INSTRUMENT CERTIFICATION

unionTEST
MARPOSS

CERTIFICATO DI TARATURA STRUMENTO EDDY CURRENT
SECONDO NORMATIVA DI RIFERIMENTO ISO 15548-1:2014

| Destinatario | 1 | Data |
|----------------|---|-----------------------------------|
| Online Cliente | 1 | Nr. Certificato |
| Mod. Strumento | 1 | Data ordine |
| Costruttore | 1 | |
| Matricola | 1 | |
| Operatore | 1 | P. CASONI 2° Livello Eddy Current |

Verifica secondo normativa ISO 15548-1:2014 con le seguenti strumentazioni da laboratorio:

| Descrizione | Marca | Modello | Matricola | Seriale Accredita |
|----------------------|-----------|-------------|-----------|-------------------|
| Strum. Multifunzione | GW INSTEK | AFG-2125 | GEO890499 | 6379 |
| Cronometro | GW INSTEK | GDS-1552A-U | EM170547 | 6378 |

| Rilevatore Campione 1 | Tipologia | Prodotto | Modello | Matricola | Defetto | Foto (80 Pin) |
|-----------------------|-----------|------------|------------|---------------|---------|---------------|
| Rilevatore Campione 2 | Tipologia | Materiali | Al. 107516 | 5/16 6990 | Defetto | 1/10 5/16 2mm |
| Sonda 1 | Tipologia | Sonda | 11096-1 | 5/16 6989 | | |
| Sonda 2 | Tipologia | INT 2007/H | | 5/16 MTC-4297 | | |

La taratura è eseguita nelle seguenti condizioni:

Con lo strumento in equilibrio termico con l'ambiente a una temperatura di 23°C e ad una umidità relativa del 50%.

Dopo un tempo di alimentazione di 2 ore.

Le incertezze simmetriche in più e meno dei valori di misura riportati nel certificato sono:

| Per la deflessione verticale | 0-10 | (deg -3) |
|--------------------------------|------------------------|----------|
| Per la deflessione orizzontale | 0-10 <th>(deg -3)</th> | (deg -3) |
| Per la frequenza | 1-10 <th>(deg -4)</th> | (deg -4) |
| Per la tensione continua | 1-10 <th>(deg -3)</th> | (deg -3) |
| Per l'ampiezza | 0,2-0,8 <td>+</td> | + |
| Per l'ampiezza | 0,1* | + |

Note:

Tutte le misure effettuate possono avere delle incertezze del 0,5% a causa delle condizioni ambientali.

UnionTEST NDT Via Abramo Lincoln 61 - 20082 Cinisello Balsamo (MI) Italia
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MARPOSS

CERTIFICATO DI TARATURA STRUMENTO EDDY CURRENT
SECONDO NORMATIVA DI RIFERIMENTO ISO 15548-1:2014

| Paragrafo | Verifica | Indicaz. | Valore nominale | Valore riscontrato | Unità di misura |
|-----------|----------|----------|-----------------|--------------------|-----------------|
| 6.4.6 | Verifica | Indicaz. | 22 | 22 | Hz |

Normativa ISO 15548-1

| Paragrafo | Verifica | Indicaz. | Valore nominale | Valore riscontrato | Unità di misura |
|-----------|----------|----------|-----------------|--------------------|-----------------|
| 6.4.6 | Verifica | Indicaz. | 22 | 22 | Hz |

ISO 15548-1

| Paragrafo | Verifica | Indicaz. | Valore nominale | Valore riscontrato | Unità di misura |
|-----------|--|----------|-----------------|--------------------|-----------------|
| 6.4.7 | Verifica <td>Indicaz.</td> <td>1000</td> <td>1000</td> <td>Hz</td> | Indicaz. | 1000 | 1000 | Hz |

Linearity of phase

| Angolo di fase [°] | Deviazione [mV] |
|--------------------|-----------------|
| 0 | 0,0 |
| 30 | 0,4 |
| 60 | 0,8 |
| 90 | 1,2 |
| 120 | 1,6 |
| 150 | 1,9 |
| 180 | 1,7 |
| 210 | 1,2 |
| 240 | 1,0 |
| 270 | 0,4 |
| 300 | 0,3 |
| 330 | 0,1 |

Orthogonality of components

| Latitudine [°] | Deviazione [mV] |
|----------------|-----------------|
| 1-2 | 0,2 |
| 2-3 | 0,4 |
| 3-4 | 0,2 |
| 4-1 | 0,4 |

Data: 26/07/2019

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Tel. +39 039 2228620 - email: info@uniontest-ndt.com - www.uniontest-ndt.com

INTERNAL DIFFERENTIAL PROBES TUBES

- **EPNC** With integrated cable, maximum length 30 meters. With integrated cable, maximum length 30 meters. Delrin / Nylon probe material

- **EPTNC** Probe with chucks. With integrated cable, maximum length 30 meters. Delrin / Nylon probe material

- **EPUNC** Probe for curve control with centering devices. With integrated cable, maximum length 30 meters. Delrin / Nylon probe material

- **EPBSNC** Standard probe with stainless steel protection heads. With integrated cable, maximum length 30 meters.

- **EPBSMC** Probe with permanent magnets and stainless steel protection heads. With integrated cable, maximum length 30 meters.

- **EPRFT₁CH** Probe with permanent magnets and stainless steel protection heads. With integrated cable, maximum length 30 meters.

- **EPRFT₂CH** Stainless steel differential and absolute RFT probe. With integrated cable, maximum length 30 meters.


All probes can be made up to a diameter of 60 mm.
Probes for non-ferrous materials may have an absolute channel as an option to check for corrosion and defects in a single solution.



Swivel Collar w/ Triax Connector



Features

1.0" to 3.2" working length
50 to 500KHz frequency range
All plastic body
Swivel Collar

Options

Working length
Overall Length
Frequency

See page 44 for option details

| Diameter | WL | 50-500KHz Shielded | 50-500KHz Shielded | 100K-1MHz Shielded | 100K-1MHz Differential | 1-3MHz Differential |
|----------|------|-----------------------|-----------------------|-----------------------|---------------------------|------------------------|
| .125 | 2.0" | TMH.125 | TMHF.125 | TMHF.125/500K | TMHD.125/500K | TMHD.125/2M |
| .156 | 2.0" | TMH.156 | TMHF.156 | TMHF.156/500K | TMHD.156/500K | TMHD.156/2M |
| .187 | 2.0" | TMH.187 | TMHF.187 | TMHF.187/500K | TMHD.187/500K | TMHD.187/2M |
| .250 | 2.0" | TMH.250 | TMHF.250 | TMHF.250/500K | TMHD.250/500K | TMHD.250/2M |
| .312 | 2.0" | TMH.312 | TMHF.312 | TMHF.312/500K | TMHD.312/500K | TMHD.312/2M |
| .375 | 2.0" | TMH.375 | TMHF.375 | TMHF.375/500K | TMHD.375/500K | TMHD.375/2M |
| .437 | 2.0" | TMH.437 | TMHF.437 | TMHF.437/500K | TMHD.437/500K | TMHD.437/2M |
| .500 | 2.0" | TMH.500 | TMHF.500 | TMHF.500/500K | TMHD.500/500K | TMHD.500/2M |
| .562 | 3.2" | TMH.562 | TMHF.562 | TMHF.562/500K | TMHD.562/500K | TMHD.562/2M |
| .625 | 3.2" | TMH.625 | TMHF.625 | TMHF.625/500K | TMHD.625/500K | TMHD.625/2M |
| .750 | 3.2" | TMH.750 | TMHF.750 | TMHF.750/500K | TMHD.750/500K | TMHD.750/2M |
| .875 | 3.2" | TMH.875 | TMHF.875 | TMHF.875/500K | TMHD.875/500K | TMHD.875/2M |
| 1.00 | 3.2" | TMH1.0 | TMHF1.0 | TMHF1.0/500K | TMHD1.0/500K | TMHD1.0/2M |

Swivel Collar w/ Microdot Connector



Features

1.0" to 3.2" working length
50 to 500KHz frequency range
All plastic body
Swivel Collar

Options

Working length
Overall Length
Frequency

See page 44 for option details

| Diameter | WL | 50-500KHz Shielded | 50-500KHz Shielded | 100K-1MHz Shielded | 100K-1MHz Differential | 1-3MHz Differential |
|----------|------|-----------------------|-----------------------|-----------------------|---------------------------|------------------------|
| .125 | 2.0" | MH.125 | MHF.125 | MHF.125/500K | MHD.125/500K | MHD.125/2M |
| .156 | 2.0" | MH.156 | MHF.156 | MHF.156/500K | MHD.156/500K | MHD.156/2M |
| .187 | 2.0" | MH.187 | MHF.187 | MHF.187/500K | MHD.187/500K | MHD.187/2M |
| .250 | 2.0" | MH.250 | MHF.250 | MHF.250/500K | MHD.250/500K | MHD.250/2M |
| .312 | 2.0" | MH.312 | MHF.312 | MHF.312/500K | MHD.312/500K | MHD.312/2M |
| .375 | 2.0" | MH.375 | MHF.375 | MHF.375/500K | MHD.375/500K | MHD.375/2M |
| .437 | 2.0" | MH.437 | MHF.437 | MHF.437/500K | MHD.437/500K | MHD.437/2M |
| .500 | 2.0" | MH.500 | MHF.500 | MHF.500/500K | MHD.500/500K | MHD.500/2M |
| .562 | 3.2" | MH.562 | MHF.562 | MHF.562/500K | MHD.562/500K | MHD.562/2M |
| .625 | 3.2" | MH.625 | MHF.625 | MHF.625/500K | MHD.625/500K | MHD.625/2M |
| .750 | 3.2" | MH.750 | MHF.750 | MHF.750/500K | MHD.750/500K | MHD.750/2M |
| .875 | 3.2" | MH.875 | MHF.875 | MHF.875/500K | MHD.875/500K | MHD.875/2M |
| 1.00 | 3.2" | MH1.0 | MHF1.0 | MHF1.0/500K | MHD1.0/500K | MHD1.0/2M |

MULTI-CHANNEL INSTRUMENTATION
EEC35+ECT-RFT



.125" Tip

See page 44 for option details

Options

Frequency

Copper shaft

Unshielded



| Length | 50-500KHz Microdot Shielded | 50-500KHz Triax Shielded | 500K-1MHz Microdot Unshielded | 500K-1MHz Triax Unshielded | 1-3MHz Microdot Shielded | 1-3MHz Triax Unshielded |
|--------|-----------------------------------|--------------------------------|-------------------------------------|----------------------------------|--------------------------------|-------------------------------|
| 2" | PEN-2 | TPEN-2 | PENU-2/500K | TPENU-2/500K | PENU-2/2M | TPENU-2/2M |
| 3" | PEN-3 | TPEN-3 | PENU-3/500K | TPENU-3/500K | PENU-3/2M | TPENU-3/2M |
| 4" | PEN-4 | TPEN-4 | PENU-4/500K | TPENU-4/500K | PENU-4/2M | TPENU-4/2M |
| 5" | PEN-5 | TPEN-5 | PENU-5/500K | TPENU-5/500K | PENU-5/2M | TPENU-5/2M |
| 6" | PEN-6 | TPEN-6 | PENU-6/500K | TPENU-6/500K | PENU-6/2M | TPENU-6/2M |
| 7" | PEN-7 | TPEN-7 | PENU-7/500K | TPENU-7/500K | PENU-7/2M | TPENU-7/2M |
| 8" | PEN-8 | TPEN-8 | PENU-8/500K | TPENU-8/500K | PENU-8/2M | TPENU-8/2M |
| 9" | PEN-9 | TPEN-9 | PENU-9/500K | TPENU-9/500K | PENU-9/2M | TPENU-9/2M |
| 10" | PEN-10 | TPEN-10 | PENU-10/500K | TPENU-10/500K | PENU-10/2M | TPENU-10/2M |
| 11" | PEN-11 | TPEN-11 | PENU-11/500K | TPENU-11/500K | PENU-11/2M | TPENU-11/2M |
| 12" | PEN-12 | TPEN-12 | PENU-12/500K | TPENU-12/500K | PENU-12/2M | TPENU-12/2M |

.072" Tip

Options

Frequency

Copper shaft

Unshielded



| Length | 50-500KHz Microdot | 50-500KHz Triax | 1-3MHz Microdot | 1-3MHz Triax |
|--------|-----------------------|--------------------|--------------------|-----------------|
| 2" | SPEN-2 | TSPEN-2 | SPEN-2/2M | TSPEN-2/2M |
| 3" | SPEN-3 | TSPEN-3 | SPEN-3/2M | TSPEN-3/2M |
| 4" | SPEN-4 | TSPEN-4 | SPEN-4/2M | TSPEN-4/2M |
| 5" | SPEN-5 | TSPEN-5 | SPEN-5/2M | TSPEN-5/2M |
| 6" | SPEN-6 | TSPEN-6 | SPEN-6/2M | TSPEN-6/2M |
| 7" | SPEN-7 | TSPEN-7 | SPEN-7/2M | TSPEN-7/2M |
| 8" | SPEN-8 | TSPEN-8 | SPEN-8/2M | TSPEN-8/2M |

.062" Tip



| Length | 50-500KHz Triax | 1-3MHz Triax |
|--------|--------------------|-----------------|
| 2" | TXPEN-2 | TXPEN-2/2M |
| 3" | TXPEN-3 | TXPEN-3/2M |
| 4" | TXPEN-4 | TXPEN-4/2M |
| 5" | TXPEN-5 | TXPEN-5/2M |
| 6" | TXPEN-6 | TXPEN-6/2M |
| 7" | TXPEN-7 | TXPEN-7/2M |
| 8" | TXPEN-8 | TXPEN-8/2M |

.050" Tip



| Length | 50-500KHz Triax | 1-3MHz Triax |
|--------|--------------------|-----------------|
| 2" | TX5PEN-2 | TX5PEN-2/2M |
| 3" | TX5PEN-3 | TX5PEN-3/2M |
| 4" | TX5PEN-4 | TX5PEN-4/2M |
| 5" | TX5PEN-5 | TX5PEN-5/2M |
| 6" | TX5PEN-6 | TX5PEN-6/2M |
| 7" | TX5PEN-7 | TX5PEN-7/2M |

MULTI-CHANNEL INSTRUMENTATION EEC35+ECT-RFT



General purpose eddy current probe for detection of surface and near surface defects around protruding head fasteners and other structures in aircraft structures.

Options
Frequency up to 6MHz
Flexible copper shaft
Unshielded plastic tip
Bent Handle

See page 44 for option details

.030" Drop - .125" Tip



| Length | 50-500KHz Microdot Shielded | 50-500KHz Triax Shielded | 500K-1MHz Microdot Unshielded | 500K-1MHz Triax Unshielded | 1-3MHz Triax Unshielded |
|--------|-----------------------------------|--------------------------------|-------------------------------------|----------------------------------|-------------------------------|
| 3" | PEN903-3 | TPEN903-3 | PENU903-3/500K | TPENU903-3/500K | TPENU903-3/2M |
| 4" | PEN903-4 | TPEN903-4 | PENU903-4/500K | TPENU903-4/500K | TPENU903-4/2M |
| 5" | PEN903-5 | TPEN903-5 | PENU903-5/500K | TPENU903-5/500K | TPENU903-5/2M |
| 6" | PEN903-6 | TPEN903-6 | PENU903-6/500K | TPENU903-6/500K | TPENU903-6/2M |
| 7" | PEN903-7 | TPEN903-7 | PENU903-7/500K | TPENU903-7/500K | TPENU903-7/2M |
| 8" | PEN903-8 | TPEN903-8 | PENU903-8/500K | TPENU903-8/500K | TPENU903-8/2M |
| 9" | PEN903-9 | TPEN903-9 | PENU903-9/500K | TPENU903-9/500K | TPENU903-9/2M |
| 10" | PEN903-10 | TPEN903-10 | PENU903-10/500K | TPENU903-10/500K | TPENU903-10/2M |

.100" Drop - .125" Tip



| Length | 50-500KHz Microdot Shielded | 50-500KHz Triax Shielded | 500K-1MHz Microdot Unshielded | 500K-1MHz Triax Unshielded | 1-3MHz Triax Unshielded |
|--------|-----------------------------------|--------------------------------|-------------------------------------|----------------------------------|-------------------------------|
| 3" | PEN91-3 | TPEN91-3 | PENU91-3/500K | TPENU91-3/500K | TPENU91-3/2M |
| 4" | PEN91-4 | TPEN91-4 | PENU91-4/500K | TPENU91-4/500K | TPENU91-4/2M |
| 5" | PEN91-5 | TPEN91-5 | PENU91-5/500K | TPENU91-5/500K | TPENU91-5/2M |
| 6" | PEN91-6 | TPEN91-6 | PENU91-6/500K | TPENU91-6/500K | TPENU91-6/2M |
| 7" | PEN91-7 | TPEN91-7 | PENU91-7/500K | TPENU91-7/500K | TPENU91-7/2M |
| 8" | PEN91-8 | TPEN91-8 | PENU91-8/500K | TPENU91-8/500K | TPENU91-8/2M |
| 9" | PEN91-9 | TPEN91-9 | PENU91-9/500K | TPENU91-9/500K | TPENU91-9/2M |
| 10" | PEN91-10 | TPEN91-10 | PENU91-10/500K | TPENU91-10/500K | TPENU91-10/2M |

.250" Drop - .125" Tip



| Length | 50-500KHz Microdot Shielded | 50-500KHz Triax Shielded | 500K-1MHz Microdot Unshielded | 500K-1MHz Triax Unshielded | 1-3MHz Triax Unshielded |
|--------|-----------------------------------|--------------------------------|-------------------------------------|----------------------------------|-------------------------------|
| 3" | PEN925-3 | TPEN925-3 | PENU925-3/500K | TPENU925-3/500K | TPENU925-3/2M |
| 4" | PEN925-4 | TPEN925-4 | PENU925-4/500K | TPENU925-4/500K | TPENU925-4/2M |
| 5" | PEN925-5 | TPEN925-5 | PENU925-5/500K | TPENU925-5/500K | TPENU925-5/2M |
| 6" | PEN925-6 | TPEN925-6 | PENU925-6/500K | TPENU925-6/500K | TPENU925-6/2M |
| 7" | PEN925-7 | TPEN925-7 | PENU925-7/500K | TPENU925-7/500K | TPENU925-7/2M |
| 8" | PEN925-8 | TPEN925-8 | PENU925-8/500K | TPENU925-8/500K | TPENU925-8/2M |
| 9" | PEN925-9 | TPEN925-9 | PENU925-9/500K | TPENU925-9/500K | TPENU925-9/2M |
| 10" | PEN925-10 | TPEN925-10 | PENU925-10/500K | TPENU925-10/500K | TPENU925-10/2M |

MULTI-CHANNEL INSTRUMENTATION EEC35+ECT-RFT



General purpose eddy current probe for detection of surface and near surface defects around protruding head fasteners and other structures in aircraft structures.

Options

Frequency up to 6MHz
Flexible copper shaft
Unshielded plastic tip
Bent handle

See page 44 for option details

.500" Drop - .125" Tip



| Length | 50-500KHz Microdot Shielded | 50-500KHz Triax Shielded | 500K-1MHz Microdot Unshielded | 500K-1MHz Triax Unshielded | 1-3MHz Triax Unshielded |
|--------|-----------------------------------|--------------------------------|-------------------------------------|----------------------------------|-------------------------------|
| 3" | PEN95-3 | TPEN95-3 | PENU95-3/500K | TPENU95-3/500K | TPENU95-3/2M |
| 4" | PEN95-4 | TPEN95-4 | PENU95-4/500K | TPENU95-4/500K | TPENU95-4/2M |
| 5" | PEN95-5 | TPEN95-5 | PENU95-5/500K | TPENU95-5/500K | TPENU95-5/2M |
| 6" | PEN95-6 | TPEN95-6 | PENU95-6/500K | TPENU95-6/500K | TPENU95-6/2M |
| 7" | PEN95-7 | TPEN95-7 | PENU95-7/500K | TPENU95-7/500K | TPENU95-7/2M |
| 8" | PEN95-8 | TPEN95-8 | PENU95-8/500K | TPENU95-8/500K | TPENU95-8/2M |
| 9" | PEN95-9 | TPEN95-9 | PENU95-9/500K | TPENU95-9/500K | TPENU95-9/2M |
| 10" | PEN95-10 | TPEN95-10 | PENU95-10/500K | TPENU95-10/500K | TPENU95-10/2M |

.750" Drop - .125" Tip



| Length | 50-500KHz Microdot Shielded | 50-500KHz Triax Shielded | 500K-1MHz Microdot Unshielded | 500K-1MHz Triax Unshielded | 1-3MHz Triax Unshielded |
|--------|-----------------------------------|--------------------------------|-------------------------------------|----------------------------------|-------------------------------|
| 3" | PEN97.5-3 | TPEN97.5-3 | PENU97.5-3/500K | TPENU97.5-3/500K | TPENU97.5-3/2M |
| 4" | PEN97.5-4 | TPEN97.5-4 | PENU97.5-4/500K | TPENU97.5-4/500K | TPENU97.5-4/2M |
| 5" | PEN97.5-5 | TPEN97.5-5 | PENU97.5-5/500K | TPENU97.5-5/500K | TPENU97.5-5/2M |
| 6" | PEN97.5-6 | TPEN97.5-6 | PENU97.5-6/500K | TPENU97.5-6/500K | TPENU97.5-6/2M |
| 7" | PEN97.5-7 | TPEN97.5-7 | PENU97.5-7/500K | TPENU97.5-7/500K | TPENU97.5-7/2M |
| 8" | PEN97.5-8 | TPEN97.5-8 | PENU97.5-8/500K | TPENU97.5-8/500K | TPENU97.5-8/2M |
| 9" | PEN97.5-9 | TPEN97.5-9 | PENU97.5-9/500K | TPENU97.5-9/500K | TPENU97.5-9/2M |
| 10" | PEN97.5-10 | TPEN97.5-10 | PENU97.5-10/500K | TPENU97.5-10/500K | TPENU97.5-10/2M |

1.0" Drop - .125" Tip



| Length | 50-500KHz Microdot Shielded | 50-500KHz Triax Shielded | 500K-1MHz Microdot Unshielded | 500K-1MHz Triax Unshielded | 1-3MHz Triax Unshielded |
|--------|-----------------------------------|--------------------------------|-------------------------------------|----------------------------------|-------------------------------|
| 3" | PEN9100-3 | TPEN9100-3 | PENU9100-3/500K | TPENU9100-3/500K | TPENU9100-3/2M |
| 4" | PEN9100-4 | TPEN9100-4 | PENU9100-4/500K | TPENU9100-4/500K | TPENU9100-4/2M |
| 5" | PEN9100-5 | TPEN9100-5 | PENU9100-5/500K | TPENU9100-5/500K | TPENU9100-5/2M |
| 6" | PEN9100-6 | TPEN9100-6 | PENU9100-6/500K | TPENU9100-6/500K | TPENU9100-6/2M |
| 7" | PEN9100-7 | TPEN9100-7 | PENU9100-7/500K | TPENU9100-7/500K | TPENU9100-7/2M |
| 8" | PEN9100-8 | TPEN9100-8 | PENU9100-8/500K | TPENU9100-8/500K | TPENU9100-8/2M |
| 9" | PEN9100-9 | TPEN9100-9 | PENU9100-9/500K | TPENU9100-9/500K | TPENU9100-9/2M |
| 10" | PEN9100-10 | TPEN9100-10 | PENU9100-10/500K | TPENU9100-10/500K | TPENU9100-10/2M |

MULTI-CHANNEL INSTRUMENTATION EEC35+ECT-RFT



MULTI-CHANNEL INSTRUMENTATION EEC35+ECT-RFT

45° - .125" Tip

Options

500KHz to 2MHz frequency range

Flexible copper shaft

Unshielded plastic tip



See page 44 for option details

| Length | 50-500KHz Microdot | 50-500KHz Triax | 1-3MHz Microdot |
|--------|-----------------------|--------------------|--------------------|
| 2" | PEN45-2 | TPEN45-2 | PEN45-2/2M |
| 3" | PEN45-3 | TPEN45-3 | PEN45-3/2M |
| 4" | PEN45-4 | TPEN45-4 | PEN45-4/2M |
| 5" | PEN45-5 | TPEN45-5 | PEN45-5/2M |
| 6" | PEN45-6 | TPEN45-6 | PEN45-6/2M |
| 7" | PEN45-7 | TPEN45-7 | PEN45-7/2M |
| 8" | PEN45-8 | TPEN45-8 | PEN45-8/2M |

30° - .125" Tip

Options

500KHz to 2MHz frequency range

Flexible copper shaft

Unshielded plastic tip



| Length | 50-500KHz Microdot | 50-500KHz Triax | 1-3MHz Microdot |
|--------|-----------------------|--------------------|--------------------|
| 2" | PEN35-2 | TPEN45-2 | PEN45-2/2M |
| 3" | PEN35-3 | TPEN45-3 | PEN45-3/2M |
| 4" | PEN35-4 | TPEN45-4 | PEN45-4/2M |
| 5" | PEN35-5 | TPEN45-5 | PEN45-5/2M |
| 6" | PEN35-6 | TPEN45-6 | PEN45-6/2M |
| 7" | PEN35-7 | TPEN45-7 | PEN45-7/2M |
| 8" | PEN35-8 | TPEN45-8 | PEN45-8/2M |

45° - .072" Tip



Options

Frequency up to 6MHz

| Length | 50-500KHz Microdot | 50-500KHz Triax | 1-3MHz Microdot |
|--------|-----------------------|--------------------|--------------------|
| 2" | SPEN45-2 | TSPEN45-2 | SPEN45-2/2M |
| 3" | SPEN45-3 | TSPEN45-3 | SPEN45-3/2M |
| 4" | SPEN45-4 | TSPEN45-4 | SPEN45-4/2M |
| 5" | SPEN45-5 | TSPEN45-5 | SPEN45-5/2M |
| 6" | SPEN45-6 | TSPEN45-6 | SPEN45-6/2M |
| 7" | SPEN45-7 | TSPEN45-7 | SPEN45-7/2M |
| 8" | SPEN45-8 | TSPEN45-8 | SPEN45-8/2M |

45° - .062" Tip



| Length | 50-500KHz | 1-3MHz |
|--------|-----------|-------------|
| 2" | XPEN45-2 | XPEN45-2/2M |
| 3" | XPEN45-3 | XPEN45-3/2M |
| 4" | XPEN45-4 | XPEN45-4/2M |
| 5" | XPEN45-5 | XPEN45-5/2M |
| 6" | XPEN45-6 | XPEN45-6/2M |
| 7" | XPEN45-7 | XPEN45-7/2M |
| 8" | XPEN45-8 | XPEN45-8/2M |

45° - .050" Tip



| Length | 50-500KHz | 1-3MHz |
|--------|-----------|--------------|
| 2" | XSPEN45-2 | XSPEN45-2/2M |
| 3" | XSPEN45-3 | XSPEN45-3/2M |
| 4" | XSPEN45-4 | XSPEN45-4/2M |
| 5" | XSPEN45-5 | XSPEN45-5/2M |
| 6" | XSPEN45-6 | XSPEN45-6/2M |
| 7" | XSPEN45-7 | XSPEN45-7/2M |
| 8" | XSPEN45-8 | XSPEN45-8/2M |



Spot Bridge (Differential)



Spot bridge/differential probes can be referred to as surface probes, but are a lower frequency than their high frequency counterparts. They can be used to find generic subsurface defects. These are normally fitted with a triax detachable connector but can be fitted with a 2 pin microdot or 4 pin Fischer connector.

Add 2M for 2 pin microdot and 4F for 4 pin Fischer

See page 44 for option details

| O.D. | 50-500Hz | 100Hz-1KHz | 500Hz-2KHz | 1-10KHz | 5-20KHz | 20-50KHz |
|-------|-----------|------------|------------|----------|----------|-----------|
| .300" | ----- | ----- | SB.3-500H | SB.3-1K | SB.3-5K | SB.3-20K |
| .350" | ----- | SB.35-100H | SB.35-500H | SB.35-1K | SB.35-5K | SB.35-20K |
| .400" | SB.4-50H | SB.4-100H | SB.4-500H | SB.4-1K | SB.4-5K | SB.4-20K |
| .500" | SB.5-50H | SB.5-100H | SB.5-500H | SB.5-1K | SB.5-5K | SB.5-20K |
| .600" | SB.6-50H | SB.6-100H | SB.6-500H | SB.6-1K | SB.6-5K | SB.6-20K |
| .700" | SB.7-50H | SB.7-100H | SB.7-500H | SB.7-1K | SB.7-5K | SB.7-20K |
| .800" | SB.8-50H | SB.8-100H | SB.8-500H | SB.8-1K | SB.8-5K | ----- |
| .900" | SB.9-50H | SB.9-100H | SB.9-500H | SB.9-1K | ----- | ----- |
| 1.00" | SB1.0-50H | SB1.0-100H | SB1.0-500H | SB1.0-1K | ----- | ----- |
| 1.20" | SB1.2-50H | SB1.2-100H | SB1.2-500H | ----- | ----- | ----- |

Ring Bridge (Differential)



Ring bridge/differential probes have the same characteristics as their spot probe counterparts but are useful for inspections around fasteners. They are also fitted with a triax detachable connector but can be fitted with a 2 pin microdot or 4 pin Fischer connector or other connectors on request.

Add 2M for 2 pin microdot and 4F for 4 pin Fischer.

See page 44 for option details

| I.D. | O.D. | 50-500Hz | 100Hz-1KHz | 500Hz-2KHz | 1-10KHz | 5-20KHz |
|-------|-------|-----------|------------|------------|----------|----------|
| .250" | .600" | ----- | ----- | RB.6-500H | RB.6-1K | RB.6-5K |
| .300" | .650" | ----- | RB.65-100H | RB.65-500H | RB.65-1K | RB.65-5K |
| .350" | .700" | RB.7-50H | RB.7-100H | RB.7-500H | RB.7-1K | RB.7-5K |
| .400" | .750" | RB.75-50H | RB.75-100H | RB.75-500H | RB.75-1K | RB.75-5K |
| .450" | .800" | RB.8-50H | RB.8-100H | RB.8-500H | RB.8-1K | RB.8-5K |
| .500" | .850" | RB.85-50H | RB.85-100H | RB.85-500H | RB.85-1K | RB.85-5K |
| .550" | .900" | RB.9-50H | RB.9-100H | RB.9-500H | RB.9-1K | RB.9-5K |
| .600" | 1.0" | RB1.0-50H | RB1.0-100H | RB1.0-500H | RB1.0-1K | ----- |
| .650" | 1.1" | RB1.1-50H | RB1.1-100H | RB1.1-500H | ----- | ----- |
| .700" | 1.2" | RB1.2-50H | RB1.2-100H | ----- | ----- | ----- |



Spot Reflection (Driver/Pickup)

See page 44 for option details



Spot reflection probes, unlike the bridge/differential type have a broader frequency band, greater depth penetration and less noise. They come standard with a triax detachable connector but can be supplied with a 2 pin microdot, 4 pin Fischer or 4 pin Lemo connectors.

Add 2M for 2 pin microdot and 4F for 4 pin Fischer.

| O.D. | 50-500Hz | 100Hz-1KHz | 500Hz-2KHz | 1-10KHz | 5-20KHz | 20-50KHz |
|-------|------------|-------------|-------------|-----------|----------|-----------|
| .300" | ----- | ----- | SDP3-500H | SDP3-1K | SDP3-5K | SDP3-20K |
| .350" | ----- | SDP35-100H | SDP35-500H | SDP35-1K | SDP35-5K | SDP35-20K |
| .400" | SDP4-50H | SDP4-100H | SDP4-500H | SDP4-1K | SDP4-5K | SDP4-20K |
| .500" | SDP5-50H | SDP5-100H | SDP5-500H | SDP5-1K | SDP5-5K | SDP5-20K |
| .600" | SDP6-50H | SDP6-100H | SDP6-500H | SDP6-1K | SDP6-5K | SDP6-20K |
| .700" | SDP7-50H | SDP7-100H | SDP7-500H | SDP7-1K | SDP7-5K | SDP7-20K |
| .800" | SDP8-50H | SDP8-100H | SDP8-500H | SDP8-1K | SDP8-5K | ----- |
| .900" | SDP9-50H | SDP9-100H | SDP9-500H | SDP9-1K | ----- | ----- |
| 1.00" | SDP1.0-50H | SDP1.0-100H | SDP1.0-500H | SDP1.0-1K | ----- | ----- |
| 1.20" | SDP1.2-50H | SDP1.2-100H | SDP1.2-500H | ----- | ----- | ----- |

Ring Reflection (Driver/Pickup)

See page 44 for option details



Ring reflection probes have a broader frequency band, greater depth penetration, and less noise. They also can be used around large fasteners for deep layer crack detection. They are equipped with a triax detachable connector, but can also be supplied with a 2 pin microdot, 4 pin Fischer or 4 pin Lemo on request.

Add 2M for 2 pin microdot and 4F for 4 pin Fischer.

| I.D. | O.D. | 50-500Hz | 100Hz-1KHz | 500Hz-2KHz | 1-10KHz | 5-20KHz |
|-------|-------|------------|-------------|-------------|-----------|----------|
| .250" | .600" | ----- | ----- | RDP6-500H | RDP6-1K | RDP6-5K |
| .300" | .650" | ----- | RDP65-100H | RDP65-500H | RDP65-1K | RDP65-5K |
| .350" | .700" | RDP7-50H | RDP7-100H | RDP7-500H | RDP7-1K | RDP7-5K |
| .400" | .750" | RDP75-50H | RDP75-100H | RDP75-500H | RDP75-1K | RDP75-5K |
| .450" | .800" | RDP8-50H | RDP8-100H | RDP8-500H | RDP8-1K | RDP8-5K |
| .500" | .850" | RDP85-50H | RDP85-100H | RDP85-500H | RDP85-1K | RDP85-5K |
| .550" | .900" | RDP9-50H | RDP9-100H | RDP9-500H | RDP9-1K | RDP9-5K |
| .600" | 1.0" | RDP1.0-50H | RDP1.0-100H | RDP1.0-500H | RDP1.0-1K | ----- |
| .650" | 1.1" | RDP1.1-50H | RDP1.1-100H | RDP1.1-500H | ----- | ----- |
| .700" | 1.2" | RDP1.2-50H | RDP1.2-100H | ----- | ----- | ----- |



Sliding Probes

Sliding probes operate in reflection mode and are useful for inspecting rows of fasteners for surface and near-surface cracks.

Adjustable
Fitted with dual microdot connectors



| Frequency | Thumbscrew Adjustment | Manual Spacers |
|--------------|-----------------------|----------------|
| 50Hz-1KHz | ASLD-50H-A | ASLD-50H |
| 100Hz-20KHz | ASLD-100H-A | ASLD-100H |
| 500Hz-50KHz | ASLD-500H-A | ASLD-500H |
| 1KHz-100KHz | ASLD-1K-A | ASLD-1K |
| 10KHz-500KHz | ASLD-10K-A | ASLD-10K |



Fixed
Fitted with triax, 2 pin or 4 pin connectors

| Frequency | 2-Pin Microdot | Triax | 4-Pin Fischer |
|--------------|----------------|------------|---------------|
| 50Hz-1KHz | SLD-50H-2M | SLD-50H-T | SLD-50H-4F |
| 100Hz-20KHz | SLD-100H-2M | SLD-100H-T | SLD-100H-4F |
| 500Hz-50KHz | SLD-500H-2M | SLD-500H-T | SLD-500H-4F |
| 1KHz-100KHz | SLD-1K-2M | SLD-1K-T | SLD-1K-4F |
| 10KHz-500KHz | SLD-10K-2M | SLD-10K-T | SLD-10K-4F |

LF Pencil Probes

Low frequency pencil probes are excellent for areas around fasteners where greater penetration is required.

See page 44 for option details



| Length | 1-5KHz Bridge 90° .5" Drop | 2-10KHz Bridge 90° .5" Drop | 5-20KHz Bridge 90° .5" Drop | 2-10KHz Bridge Straight | 1-10KHz Reflection 90° .5" Drop | 10-50KHz Reflection 90° .5" Drop |
|--------|----------------------------|-----------------------------|-----------------------------|-------------------------|---------------------------------|----------------------------------|
| 3.0" | TPN95-3/1K | TPN95-3/2K | TPN95-3/5K | TPN-3/2K | TPNR95-3/5K | TPNR92-3/20K |
| 4.0" | TPN95-4/1K | TPN95-4/2K | TPN95-4/5K | TPN-4/2K | TPNR95-4/5K | TPNR92-4/20K |
| 5.0" | TPN95-5/1K | TPN95-5/2K | TPN95-5/5K | TPN-5/2K | TPNR95-5/5K | TPNR92-5/20K |
| 6.0" | TPN95-6/1K | TPN95-6/2K | TPN95-6/5K | TPN-6/2K | TPNR95-6/5K | TPNR92-6/20K |
| 7.0" | TPN95-7/1K | TPN95-7/2K | TPN95-7/5K | TPN-7/2K | TPNR95-7/5K | TPNR92-7/20K |
| 8.0" | TPN95-8/1K | TPN95-8/2K | TPN95-8/5K | TPN-8/2K | TPNR95-8/5K | TPNR92-8/20K |
| 9.0" | TPN95-9/1K | TPN95-9/2K | TPN95-9/5K | TPN-9/2K | TPNR95-9/5K | TPNR92-9/20K |
| 10.0" | TPN95-10/1K | TPN95-10/2K | TPN95-10/5K | TPN-10/2K | TPNR95-10/5K | TPNR92-10/20K |



Spring Loaded Probes

Spring loaded probes are excellent for situations where constant tip-to-surface angle and pressure is required. These probes are typically used for part sampling and corrosion detection.

Bridge (Differential)



| Diameter | Frequency | 2-Pin Microdot | Triax |
|----------|-------------|-----------------|--------------|
| .125" | 100-500KHz | SPD.125-100K-2M | SPD.125-100K |
| .125" | 500KHz-1MHz | SPD.125-500K-2M | SPD.125-500K |
| .250" | 10-20KHz | SPD-.25-10K-2M | SPD.25-10K |
| .250" | 20-100KHz | SPD.25-20K-2M | SPD.25-20K |
| .375" | 500Hz-1KHz | SPD.375-500H-2M | SPD.375-500H |
| .375" | 1-5KHz | SPD.375-1K-2M | SPD.375-1K |
| .375" | 5-10KHz | SPD.375-5K-2M | SPD.375-5K |
| .375" | 10-50KHz | SPD.375-10K-2M | SPD.375-10K |

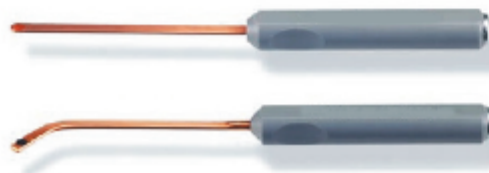
Reflection



| Diameter | Frequency | 2-Pin Microdot | Triax |
|----------|------------|-----------------|--------------|
| .250" | 20-100KHz | SPR.25-20K-2M | SPR.25-20K |
| .250" | 100-500KHz | SPR.25-100K-2M | SPR.25-100K |
| .375" | 500Hz-1KHz | SPR.375-500H-2M | SPR.375-500H |
| .375" | 1-5KHz | SPR.375-1K-2M | SPR.375-1K |
| .375" | 5-10KHz | SPR.375-5K-2M | SPR.375-5K |

Blade Probes

Specialized surface probe originally used for access to clevis lugs and adjacent structures, but is excellent for any narrow gap or other areas that are difficult to reach.



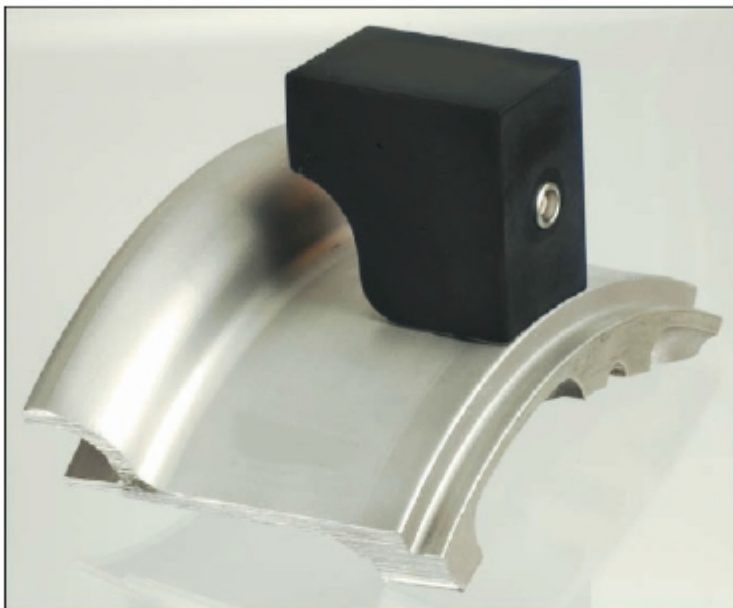
| Angle | Thickness | 50-500KHz | 50-500KHz |
|----------|-----------|-----------|-----------|
| | | Microdot | Triax |
| Straight | .045" | BL045-6 | TBL045-6 |
| Straight | .060" | BL060-6 | TBL060-6 |
| Straight | .090" | BL090-6 | TBL090-6 |
| 30° | .060" | BL360-6 | TBL360-6 |
| 30° | .090" | BL390-6 | TBL390-6 |
| 45° | .045" | BL445-6 | TBL445-6 |
| 45° | .060" | BL460-6 | TBL460-6 |
| 45° | .090" | BL490-6 | TBL490-6 |
| 60° | .045" | BL645-6 | TBL645-6 |
| 60° | .060" | BL660-6 | TBL660-6 |
| 90° | .045" | BL945-6 | TBL945-6 |
| 90° | .060" | BL960-6 | TBL960-6 |



ISO 9001
ACSQ
Certification Body

Wheel Probes and Standards

For wide scanning of bead seat area of aircraft wheels. Features include a close tolerance molding to wheel profile, thus eliminating effects of lift-off. Standard frequency is 500KHz. Probe coils are bridge/differential that run in reflection mode.



| Aircraft | PROBES | | STANDARDS | | KITS |
|----------|------------|------------|------------|------------|------------|
| | Main | Nose | Main | Nose | Part No. |
| B717 | ACPM-717 | ACPN-717 | ACWM-717 | ACWN-717 | ACPK-717 |
| B727 | ACPM-727 | ACPN-727 | ACWM-727 | ACWN-727 | ACPK-727 |
| B737 | ACPM-737 | ACPN-737 | ACWM-737 | ACWN-737 | ACPK-737 |
| B747 | ACPM-747 | ACPN-747 | ACWM-747 | ACWN-747 | ACPK-747 |
| B757 | ACPM-757 | ACPN-757 | ACWM-757 | ACWN-757 | ACPK-757 |
| B767 | ACPM-767 | ACPN-767 | ACWM-767 | ACWN-767 | ACPK-767 |
| B777 | ACPM-777 | ACPN-777 | ACWM-777 | ACWN-777 | ACPK-777 |
| DC-9 | ACPM-DC9 | ACPN-DC9 | ACWM-DC9 | ACWN-DC9 | ACPK-DC9 |
| DC-10 | ACPM-DC10 | ACPN-DC10 | ACWM-DC10 | ACWN-DC10 | ACPK-DC10 |
| MD-11 | ACPM-MD11 | ACPN-MD11 | ACWM-MD11 | ACWN-MD11 | ACPK-MD11 |
| MD-88 | ACPM-MD88 | ACPN-MD88 | ACWM-MD88 | ACWN-MD88 | ACPK-MD88 |
| KC-135 | ACPM-KC135 | ACPN-KC135 | ACWM-KC135 | ACWN-KC135 | ACPK-KC135 |
| C-130 | ACPM-C130 | ACPN-C130 | ACWM-C130 | ACWN-C130 | ACPK-C130 |
| F-15C,D | ACPM-F15 | ACPN-F15 | ACWM-F15 | ACWN-F15 | ACPK-F15 |
| F-15E | ACPM-F15E | ACPN-F15E | ACWM-F15E | ACWN-F15E | ACPK-F15E |
| F-16 | ACPM-F16 | ACPN-F16 | ACWM-F16 | ACWN-F16 | ACPK-F16 |

MULTI-CHANNEL INSTRUMENTATION
EEC35+ECT-RFT

Connector Identification Chart

Microdot



4-pin Fischer



Triax



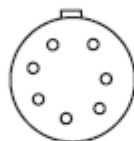
2-pin Microdot



Coax



Locator 2 (7 Pin Lemo)



Phasec 2d & 2200 (12 Pin Lemo)



Phasec 1.1 (6 Pin Jaeger)



Rohmann B1 (8 Pin Fischer)



Nortec 1000 & 2000 (16 Pin Lemo)



Nortec NDT-18 & 19 (8 Pin Burndy)



MIZ-21 (4 Pin Fischer)



MIZ-20 & 22 (4 Pin Cannon)

