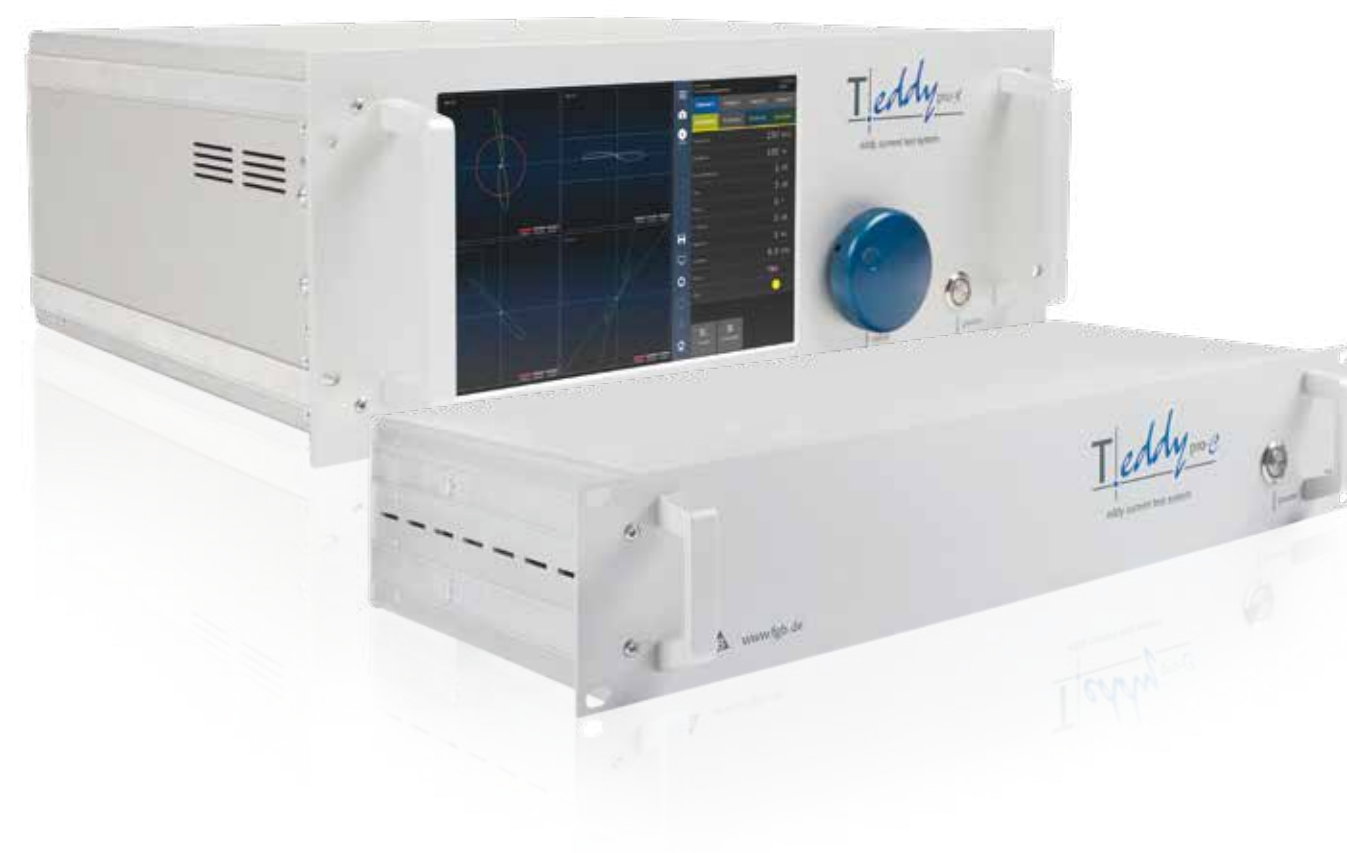


**T|eddy** systems operate highly efficient and reliable, worldwide.



**T|eddy**

T.eddy pro-series – Fully digital eddy-current testing system.



**F|G|B**

### Individual solutions from a single source

For more than 20 years FGB have been suppliers of high-performance, complex eddy-current testing systems for customers from a wide variety of industries. Today the company supplies individually tailored solutions that benefit customers all over the world. What is unique is that the overall process ranging from design engineering to manufacture, assembly, hard- and software development is all carried out in-house.



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Probes and probe-systems

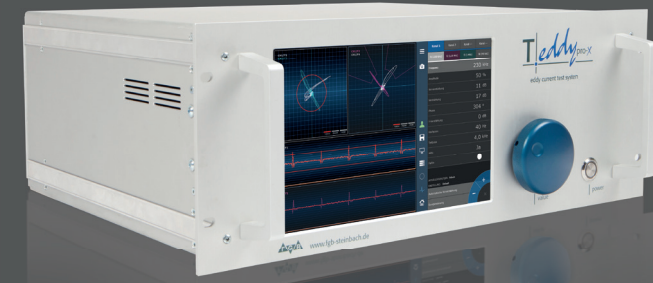




## T.eddy pro-X

### Electronics

- Generator frequency: 10 Hz ... 5 MHz
- $U_{max} = +/- 10 V$ 
  - Fully digital generator and demodulator
    - Pregain: -30 dB ... 60 dB
      - Fully digital variable highpass-filter: [off] ... 10 kHz
      - Fully digital variable lowpass-filter: 10 Hz ... 10 kHz
    - Gain: -30 dB ... 60 dB
    - Phase rotation: 0° ... 360°
    - Y-spread: 0 dB ... 20 dB
  - Various realtime threshold types
    - Multi-frequency mode for each Channel
      - Harmonic evaluation for each Channel
      - Up to 4 channels per instrument



### Interfaces

- LAN
- USB (2x) for keyboard, mouse, memory-stick
- Digital I/Os (24V) for inline integration
  - Sync-In / Sync-Out
- Analog and digital encoder interface per Channel
  - Ready for remote support, internet connection required

### HMI

- TFT-Touch-Display (1680 x 1050 Pixel)
  - Jog-wheel for easy adjustment
- Intuitive operation concept
  - User management
  - Multilanguage ready
    - Screenshot function on USB-memory-stick

### Chassis

- W x L x H: 482 (19") x 440 x 178 (4U)
- Weight: ca. 9.5 kg
- IP30



### Interfaces

- LAN
- Digital I/Os (24V) for inline integration
- Sync-In / Sync-Out
- Analog and digital encoder interface per Channel
- Ready for remote support with external PC, internet connection required

### Chassis

- up to 2 Channels: W x L x H: 482 (19") x 290 x 89 (2U)
- up to 4 Channels: W x L x H: 482 (19") x 390 x 89 (2U)
- Weight: ca. 5 kg
- IP30

## T.eddy pro-C



### Electronics

- Generator frequency: 10 Hz ... 5 MHz
- $U_{max} = +/- 10 V$ 
  - Fully digital generator and demodulator
    - Pregain: -30 dB ... 60 dB
      - Fully digital variable highpass-filter: [off] ... 10 kHz
      - Fully digital variable lowpass-filter: 10 Hz ... 10 kHz
    - Gain: -30 dB ... 60 dB
    - Phase rotation: 0° ... 360°
    - Y-spread: 0 dB ... 20 dB
  - Various realtime threshold types
    - Multi-frequency mode for each Channel
      - Harmonic evaluation for each Channel
      - Up to 4 channels per instrument

### HMI

- Remote controlled by external PC (not included)
- Software to be installed on external PC (included)
- Intuitive operation concept
- User management
- Multilanguage ready





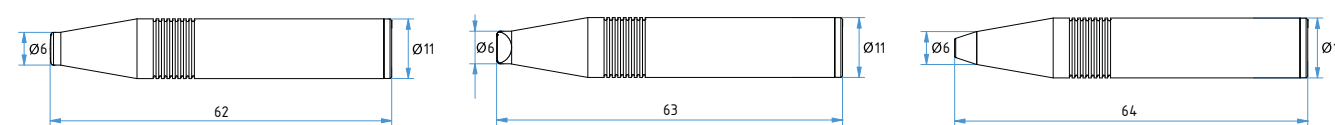


**Pencil probe (Type: HS1)**

Coil name	Coil type	Frequency range $f_{min}$ $f_{max}$	Ceramic shape	Art.-No.
AS7	Differential	25 kHz – 1,0 MHz	flat	AS7-HS1-6C30
DDS33	Differential	10 kHz – 2,0 MHz	flat	DDS33-HS1-6C25
PD23	Differential	75 kHz – 5,0 MHz	flat	PD23-HS1-6C25
PDS23	Differential	75 kHz – 5,0 MHz	peaked	PDS23-HS1-6SF2
SA60	Absolute	25 kHz – 1,0 MHz	conical	SA60-HS1-PC68
SD60	Differential	25 kHz – 4,0 MHz	peaked	SD60-HS1-6SF2
SD60	Differential	25 kHz – 4,0 MHz	flat	SD60-HS1-6C17

**Standard connection: Fischer D102 A (4-pole)**

SPECIAL DESIGNS ON REQUEST +



flat peaked conical

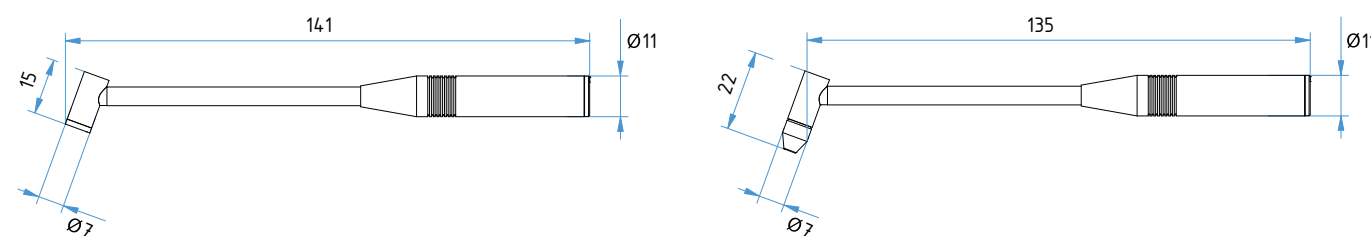


**Angulated probe (Type: HS2)**

Coil name	Coil type	Frequency range $f_{min}$ $f_{max}$	Ceramic shape	Art.-No.
AS7	Differential	25 kHz – 1,0 MHz	flat	AS7-HS2-KF07
DDS33	Differential	10 kHz – 2,0 MHz	flat	DDS33-HS2-KF07
PD23	Differential	75 kHz – 5,0 MHz	flat	PD23-HS2-KF07
PDS23	Differential	75 kHz – 5,0 MHz	peaked	PDS23-HS2-6SF2
SA60	Absolute	25 kHz – 1,0 MHz	peaked	SA60-HS2-PC78
SD60	Differential	25 kHz – 4,0 MHz	flat	SD60-HS2-KF07

**Standard connection: Fischer D102 A (4-pole)**

SPECIAL DESIGNS ON REQUEST +



flat peaked



**Semi-transmission probe**

Type	Coil type	Core- $\varnothing$	Frequency range $f_{min}$ $f_{max}$	Angle	Art.-No.
MT-DK011	semi-transmission	$\varnothing$ 11,0 mm	100 Hz – 2,0 kHz	130°	MT-DK011-130
MT-DK011	semi-transmission	$\varnothing$ 11,0 mm	100 Hz – 2,0 kHz	180°	MT-DK011-180
MT-DK014	semi-transmission	$\varnothing$ 14,0 mm	100 Hz – 2,0 kHz	130°	MT-DK014-130
MT-DK014	semi-transmission	$\varnothing$ 14,0 mm	100 Hz – 2,0 kHz	180°	MT-DK014-180
MT-DK018	semi-transmission	$\varnothing$ 18,0 mm	100 Hz – 2,0 kHz	130°	MT-DK018-130
MT-DK018	semi-transmission	$\varnothing$ 18,0 mm	100 Hz – 2,0 kHz	180°	MT-DK018-180

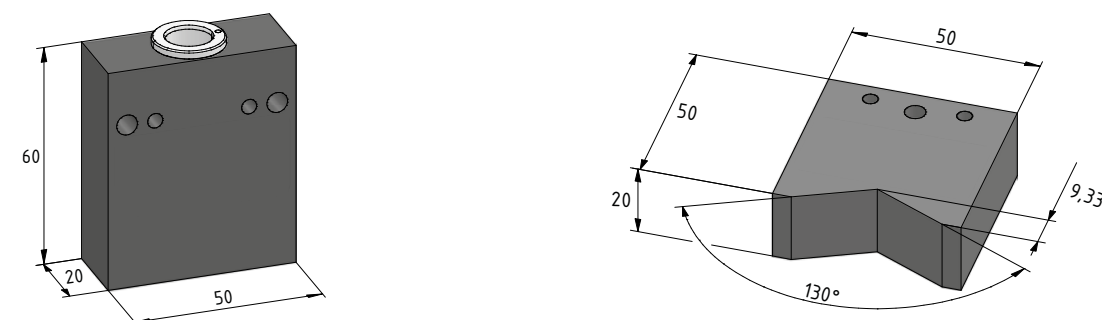
**Standard connection:**

Angle 130°: Cable with Fischer S102 A (4-pole), variable cable length  
Angle 180°: Fischer D104 Z (8-pole)

SPECIAL DESIGNS ON REQUEST +



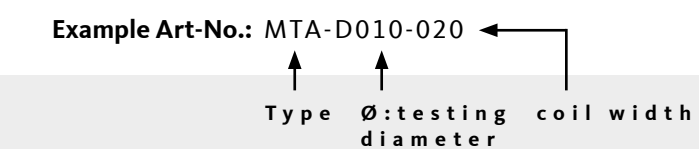
Fischer D104 Z Cable with Fischer S102 A



**Encircling coil for microstructure testing**

Type	Overall dimension	Frequency range $f_{min}$ $f_{max}$	$\varnothing$ as mm	coil with as mm
MTA	50 x 50 x 25 mm	100 Hz – 2,0 kHz	5, 10, 15, 20, 25	2, 5, 10, 15
MTB	100 x 100 x 25 mm	100 Hz – 2,0 kHz	10, 15, 20, 15, 20, 25, 30, 35, 40, 45, 50	2, 5, 10, 15
MTC	150 x 150 x 90 mm	100 Hz – 2,0 kHz	10, 20, 30, 40, 50, 60, 70, 80, 90, 100	10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80*
MTD	100 x 100 x 40 mm	100 Hz – 2,0 kHz	10, 15, 20, 15, 20, 25, 30, 35, 40, 45, 50	5, 10, 15, 20, 25, 30

\* Only for testing diameter 40 mm



**Standard connection:**

MTA: Cable with Fischer S102 A (4-pole), variable cable length  
MTB, MTC, MTD: Fischer D104 Z (8-pole)

SPECIAL DESIGNS ON REQUEST +



MTA MTB MTC MTD

