



MT3x0 Product Catalogue

Doc.No: 100352700 Version from: 01.01.2024

1016658xx

Ord.No.

Device



STANDARD SET

MT310 Three-Phase Reference Meter CAT III Inclusive adjustment and factory calibration for <u>one</u> mains frequency.

Calibration	Ord.No.	
Factory 50 Hz	$xx \rightarrow 00$	
Factory 60 Hz	$xx \rightarrow 01$	
DAkkS 50 Hz	$xx \rightarrow 02$	
DAkkS 60 Hz	$xx \rightarrow 03$	

The MT310 is a light weight and compact Reference Meter for on-site verification and calibration of single- or three-phase meters. Test voltage and test current can be measured by the Reference Meter directly from the mains or generated and measured via an external source (optional, e.g. MT400 or MT500).

The MT310 is designed for testing one test specimen.

Configuration:

- Direct current measurement up to 300 V / 12 A
- CT current measurement up to 120 A
- Accuracy for power/energy measurement: < ±0.1 %
- Burden measurement for instrument transformer installations

Inclusive the following accessories:

- Software option for selective power measurement
- Software option I-transformer testing
- MT3460, AC current clamp set
- Calibration for one mains frequency
- Power cord "Euro plug type C to figure-of-eight", 2.0 m
- Power cord "stackable safety plug (black) to figure-of-eight", 2.0 m
- Laboratory cable with stackable plug, 2.0 m 3x red, 3x yellow, 3x blue, 1x black
- Accessories bag with connection adapters
- TK326, scanning head with holding device and connection cable for scanning head input (SC)
- Interface cable, RS232
- Transport case for MT3xx, large
- Complete documentations as pdf files on USB flash drive

1016673xx

Ord.No.



STANDARD SET

MT320 Three-Phase Reference Meter CAT III Inclusive adjustment and factory calibration for <u>one</u> mains frequency.

CalibrationOrd.No.Factory 50 Hz $xx \rightarrow 00$ Factory 60 Hz $xx \rightarrow 01$ DAkkS 50 Hz $xx \rightarrow 02$ DAkkS 60 Hz $xx \rightarrow 03$

The MT320 is a light weight and compact Reference Meter for on-site verification and calibration of single- or three-phase meters. Test voltage and test current can be measured by the Reference Meter directly from the mains or generated and measured via an external source (optional, e.g. MT400 or MT500).

The MT320 is designed for testing one test specimen.

Configuration:

- Direct current measurement up to 300 V / 12 A
- CT current measurement up to 120 A
- Accuracy for power/energy measurement: < ±0.05 %
- Burden measurement for instrument transformer installations

Inclusive the following accessories:

- Software option for selective power measurement
- Software option I-transformer testing
- MT3460, AC current clamp set
- Calibration for one mains frequency
- Power cord "Euro plug type C to figure-of-eight", 2.0 m
- Power cord "stackable safety plug (black) to figure-of-eight", 2.0 m
- Laboratory cable with stackable plug, 2.0 m 3x red, 3x yellow, 3x blue, 1x black
- Accessories bag with connection adapters
- TK326, scanning head with holding device and connection cable for scanning head input (SC)
- Interface cable, RS232
- Transport case for MT3xx, large
- Complete documentations as pdf files on USB flash drive



MT310 Three-Phase Reference Meter CAT III

Inclusive adjustment and factory calibration for <u>one</u> mains frequency.

Calibration	Ord.No.	
Factory 50 Hz	$xx \rightarrow 00$	
Factory 60 Hz	xx → 01	
DAkkS 50 Hz	$xx \rightarrow 02$	
DAkkS 60 Hz	$xx \rightarrow 03$	

The MT310 is a light weight and compact Reference Meter for on-site verification and calibration of single- or three-phase meters. The MT310 is designed for testing one test specimen.

Configuration:

- Direct current measurement up to 300 V / 12 A
- Accuracy for power/energy measurement: < ±0.1 %
- Burden measurement for instrument transformer installations
- Wide range of accessories (optional)

for one mains frequency.



MT310 Three-Phase Reference Meter CAT IV Inclusive adjustment and factory calibration

Calibration	Ord.No.	
Factory 50 Hz	$xx \rightarrow 00$	
Factory 60 Hz	$xx \rightarrow 01$	
DAkkS 50 Hz	$xx \rightarrow 02$	
DAkkS 60 Hz	$xx \rightarrow 03$	

The MT310 is a light weight and compact Reference Meter for on-site verification and calibration of single- or three-phase meters.

The MT310 is designed for testing one test specimen.

Configuration:

- Direct current measurement up to 300 V / 12 A
- Accuracy for power/energy measurement: < ±0.1 %
- Burden measurement for instrument transformer installations
- Wide range of accessories (optional)

Ord.No.

1016659xx

1016672xx

Ord.No.



MT320 Three-Phase Reference Meter CAT III

Inclusive adjustment and factory calibration for <u>one</u> mains frequency.

Calibration	Ord.No.	
Factory 50 Hz	$xx \rightarrow 00$	
Factory 60 Hz	xx → 01	
DAkkS 50 Hz	$xx \rightarrow 02$	
DAkkS 60 Hz	$xx \rightarrow 03$	

The MT320 is a light weight and compact Reference Meter for on-site verification and calibration of single- or three-phase meters. The MT320 is designed for testing one test specimen.

Configuration:

- Direct current measurement up to 300 V / 12 A
- CT current measurement up to 120 A
- Accuracy for power/energy measurement: < ±0.05 %
- Burden measurement for instrument transformer installations



MT320 Three-Phase Reference Meter CAT IV

Inclusive adjustment and factory calibration for <u>one</u> mains frequency.

Calibration	Ord.No.	
Factory 50 Hz	$xx \rightarrow 00$	
Factory 60 Hz	$xx \rightarrow 01$	
DAkkS 50 Hz	$xx \rightarrow 02$	
DAkkS 60 Hz	$xx \rightarrow 03$	

The MT320 is a light weight and compact Reference Meter for on-site verification and calibration of single- or three-phase meters.

The MT320 is designed for testing one test specimen.

Configuration:

- Direct current measurement up to 300 V / 12 A
- CT current measurement up to 120 A
- Accuracy for power/energy measurement: < ±0.05 %
- Burden measurement for instrument transformer installations

Ord.No.

1016674xx

1016675xx

Ord.No.

Power Cords Power cord "Plug type A to figure-of-eight", Ord.No. 100277201 2.0 m For supply via mains supply. • 1x Plug type A • 1x Figure-of-eight socket (IEC 60320-1 C7) Power cord "Euro plug type C to figure-of-eight", Ord.No. 100067700 2.0 m For supply via mains supply. • 1x Euro plug type C (CEE 7/16) • 1x Figure-of-eight socket (IEC 60320-1 C7) Power cord "Plug type G to figure-of-eight", Ord.No. 100277200 2.0 m For supply via mains supply. • 1x Plug type G (BS1363) • 1x Figure-of-eight socket (IEC 60320-1 C7) Power cord "Plug type I to figure-of-eight", 2.0 m Ord.No. 100277202 For supply via mains supply. • 1x Plug type I (AS/NZS 3112, 2-pin) 1x Figure-of-eight socket (IEC 60320-1 C7) Power cord "stackable safety plug (black) Ord.No. 100067608 to figure-of-eight", 2.0 m For supply via test voltage. • 2x stackable, spring-loaded 4 mm plugs with rigid

insulating sleeve (2x black)

• 1x Figure-of-eight socket (IEC 60320-1 C7)

1016683xx

Ord.No.

Current Clamps (see also Special Accessories)



MT3460, AC current clamp set 120 A

The CT set is electronically compensated. Calibration independent from the measuring standard inclusive adjustment and factory calibration for <u>one</u> mains frequency.

Calibration	Ord.No.	
Factory 50 Hz	$xx \rightarrow 00$	
Factory 60 Hz	$xx \rightarrow 01$	
DAkkS 50 Hz	$xx \rightarrow 02$	
DAkkS 60 Hz	$xx \rightarrow 03$	

DAkkS calibrations are only performed together with the corresponding measuring standard.

- · Clamping diameter: 16 mm
- Output: D-Sub plug 25-pin
- Measuring range: 5 mA ... 120 A
- Error of measurement: < ±0.15% @ 500 mA ... 120 A < ±0.3% @ 100 mA ...< 500 mA
- Frequency range: 45 ... 65 Hz
- Frequency range: 45 ... 05 Tiz
- Overvoltage Category: CAT III 600 V / CAT IV 300 V



MT3416, AC current clamp set 300 A

The CT set is electronically compensated. Calibration independent from the measuring standard inclusive adjustment and factory calibration for <u>one</u> mains frequency.

Calibration	Ord.No.	
Factory 50 Hz	$xx \rightarrow 00$	
Factory 60 Hz	xx → 01	
DAkkS 50 Hz	$xx \rightarrow 02$	
DAkkS 60 Hz	$xx \rightarrow 03$	

DAkkS calibrations are only performed together with the corresponding measuring standard.

- Clamping diameter: 52 mm
- Output: D-Sub plug 25-pin
- Measuring range: 100 mA ... 300 A
- Error of measurement:
 - < ±0,15 % / < 0,1° (1 A ... 300 A)
 - < ±0,3 % / < 0,1° (500 mA ... 1 A)
 - $<\pm0,6$ % / $<0,15^\circ$ (200 mA \dots 500 mA)
- Frequency range: 45 ... 65 Hz
- Overvoltage Category: CAT III 600 V / CAT IV 300 V

Quick Connection	n Cable (see also Special Accessories)		
	 Quick connection cable "current/rigid sleeve" for MT series, 12 A, 2.5 m, phase colours: red/yellow/blue To prevent connecting faults on the instrument's side. Instrument's side: 1x 6-pin connector with anti-twist safeguard. Mains side: 6x stackable, spring-loaded 4 mm plugs with rigid insulating sleeve. 2x red, 2x yellow, 2x blue. Cable cross-section: 2.5 qmm 	Ord.No.	100023411
	 Quick connection cable "voltage/rigid sleeve" for MT series, 2.5 m, phase colours: red/yellow/blue/black To prevent connecting faults on the instrument's side. Measurement category III (CAT III). Instrument's side: 1x 4-pin connector with anti-twist safeguard. Mains side: 4x stackable, spring-loaded 4 mm plug with rigid insulating sleeve - 1x red, 1x yellow, 1x blue, 1x black Cable cross-section: 2.5 qmm 	Ord.No.	100023402
CATIV	 Quick connection cable CAT IV for "voltage/rigid sleeve" for MT series, 2 m, phase colours: red/yellow/blue/black To prevent connecting faults on the instrument's side. Measurement category IV (CAT IV). Instrument's side: 1x 4-pin connector with anti-twist safeguard. Mains side: 4x 4 mm Multilam plug with rigid insulating sleeve - 1x red, 1x yellow, 1x blue, 1x black Cable cross-section: 2.5 qmm 	Ord.No.	100023483
Current and Volta	age Cables (see also Special Accessories)		
	 Laboratory cable with stackable plug, red, 2.0 m Measurement category III (CAT III). 2x stackable 4 mm plugs with rigid insulating sleeve Lead cross section: 2.5 qmm 	Ord.No.	X00007597
	 Laboratory cable with stackable plug, yellow, 2.0 m Measurement category III (CAT III). 2x stackable 4 mm plugs with rigid insulating sleeve Lead cross section: 2.5 qmm 	Ord.No.	X00006907

	 Laboratory cable with stackable plug, blue, 2.0 m Measurement category III (CAT III). 2x stackable 4 mm plugs with rigid insulating sleeve Lead cross section: 2.5 qmm 	Ord.No.	X00007598
	Laboratory cable with stackable plug, black, 2.0 m Measurement category III (CAT III). • 2x stackable 4 mm plugs with rigid insulating sleeve • Lead cross section: 2.5 qmm	Ord.No.	X00006910
	 CAT IV Laboratory cable max. 12 A, 2.0 m 2x 4 mm plugs (non-stackable) with rigid insulating sleeve Lead cross section: 1 qmm Phase colours: Please specify the colour code when ordering The cables will get a corresponding coloured marking. 20=black-white, 21=black, 22=red, 23=blue, 24= yellow, 25=green, 26=violet, 27=brown, 28=grey, 29=white 	Ord.No.	1014308xx
Software			
	Software SSM3000 / MTVis The software runs under Windows 7 or 10.	Ord.No.	100090720

- SSM3000: For external control via PC.MTVis: To readout and display saved data.

The software can be downloaded at www.zera.de.

17.02.1007 14:15 U.B: IR: MH: [1-Transformer 200 0 [0 6 4 440 N-Ppin: [1-Sek: 1] Y-Sek: [1] Y-Sek: [1] Y-Sek: [1] Y-Sec 0.000 0 A Y-Sec 0.000 0 A <tr< th=""><th> Software option for I-transformer testing, MT3x0 series The option supports the simultaneous measurement of primary and secondary currents of a current transformer. The following values are tested: Transformer ratio Transformer error The phase angle between primary and secondary current Note: This option is not available for the MT30. </th><th>Ord.No.</th><th>100078800</th></tr<>	 Software option for I-transformer testing, MT3x0 series The option supports the simultaneous measurement of primary and secondary currents of a current transformer. The following values are tested: Transformer ratio Transformer error The phase angle between primary and secondary current Note: This option is not available for the MT30. 	Ord.No.	100078800
28.02,2007 10:00 UR: IX: MM: Gristian 250 0.0101 Add Gristian 0.0000 0.0000 0.0000 0.0000 10 0.0000 0.0000 0.0000 0.0000 0.0000 10 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 10 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 10 0.0000	Software option for selective power measurement, MT3xx series 3 additional measuring modes for only fundamental power in 4W active, 4W reactive, and 4W apparent are available	Ord.No.	100078801
27.02.2007 14:15 ШВ: 18: ММ: Вослус 250 U (сл. и) 440 Dosage node: 0n.	Software option for energy dosage, MT3xx series By the help of this option you can specify a certain amount of energy that the electricity meter is supplied with by an external voltage or current source. The switching current of the external source is controlled. <i>Note:</i> This option is not available for the MT30.	Ord.No.	100078802
Impulse Sensor (s	ee also Special Accessories)		
ZERA TKIB-05 oniy LED	 TK118, scanning head For detection of LED signals of electronic meters. Fixing: Via provided suction cup or via optionally available stretchable holding device for scanning heads TK326/TK118. 	Ord.No.	100201900
	 TK326, scanning head without holding device For detection of rotor disc markings on Ferraris meters and LED signals on electronic meters. Fixing: Via stretchable holding device for scanning heads TK326/TK118. 	Ord.No.	101064901

Product Catalog	MT3x0
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X00010059

M00460183

(crocodile clips), slim

(crocodile clips), wide 10 Fuse, 1.6 A / 440 V,

6.3 mm x 32 mm, time-lag

03 4-mm test clips

Transport (see al	so Special Accessories)		
	 Transport Case for MT3xx, large Aluminum case with inlet from rigid foam, designed for 1 Instrument Accessories Overall dimensions: 47 cm x 53,5 cm × 18 cm (H x W x D) Please clarify whether the case size is suitable for the ordered accessories. 	Ord.No.	100023910
	 Transport Case for MT3xx, Standard Aluminum case with inlet from rigid foam, designed for 1 Instrument Accessories Overall dimensions: 36 cm x 45 cm × 17 cm (H x W x D) Please clarify whether the case size is suitable for the ordered accessories. 	Ord.No.	100023933
Standard Access	ories (see also Special Accessories)		
	Interface cable, RS232, crossed wired (null modem cable) Connection cable for communication • 2x D-Sub socket, 9-pin • Cable length: 3.00 m	Ord.No.	X00010844
ZERA	Protection cover for MT series 3xx/400/500 To protect the front plate against mechanical collision during transport without transport case.	Ord.No.	100466700
Documentation			
	Complete Documentation		
	as pdf files on USB flash drive	Ord.No.	100090716

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Special Accessor	ies		
	 Power cord "stackable safety plug (black/yellow) to figure-of-eight", 2.0 m For supply via test voltage. 2x stackable, spring-loaded 4 mm plugs with rigid insulating sleeve (1x black; 1x yellow) 1x Figure-of-eight socket (IEC 60320-1 C7) 	Ord.No.	100067601
	 Power cord "stackable safety plug (violet/yellow) to figure-of-eight", 2.0 m For supply via test voltage. 2x stackable, spring-loaded 4 mm plugs with rigid insulating sleeve (1x violet/1x yellow) 1x Figure-of-eight socket (IEC 60320-1 C7) 	Ord.No.	100067602
Special Accessor	ies (Current Clamps and Probes)		
	 MT3403, AC current clamp 1200 A Clamping diameter: 52 mm Output: 2x 4 mm safety sockets Measuring range: 10 mA 1200 A (1200 A for 40 min max. and a pause between measurement > 20 min) Error of measurement: ±0.3 % / 0.7° (100 A 1200 A) ±0.5 % / 1.0° (10 A 100 A) ±1.0 % / 2.0° (1 A 10 A) Frequency range: 48 65 Hz Rated voltage: 600 V, CAT III / 300 V, CAT IV Note: Connection to the MT device via input for direct current measurement. 	Ord.No.	100032410
	MT3413, AC current clamp 1800 A Clamping of round or square conductors. • Clamping diameter: 64 mm or busbar from 50 x 135 mm up to 64 x 100 mm • Output: 2x 4 mm safety sockets • Measuring range: 1 A 1800 A (1800 A measurement for max. 10 min) • Switchable ranges: 500 A, 1000 A, 1500 A • Error of measurement in 1500 A range: $< \pm 1.5 \% / 1.5^{\circ} (75 A)$ $< \pm 0.75 \% / 0.75^{\circ} (300 A)$ $< \pm 0.5 \% / 0.5^{\circ} (1500 A)$ • Frequency range: 48 65 Hz • Rated voltage: 600 V, CAT III / 300 V, CAT IV Note: Connection to the MT device via input for direct current measurement.	Ord.No.	100032401



MT3470, flexible AC current probes 3000 A, 0.45 m

Flexible clamping adapter for enclosing conductors of any shape and in areas difficult to access.

- Diameter: ca. 14 cm
- Output: 2x 4 mm safety plug connection via adapter MT3423
- Measuring range: 500 mA ... 3000 A
- Switchable ranges: 3 A, 30 A, 300 A, 3000 A
- Error of measurement with optimal range selection: 3-A-range: <= ±1,0 % / typ. 0,5° (0,5 A ... 3 A) 30-A-range: <= ±1,0 % / typ. 0,5° (2 A ... 30 A) 300-A-range: <= ±1,0 % / typ. 0,5° (30 A ... 300 A)
- 3000-A-range: <= ±1,0 % / typ. 0,5° (300 A ... 3000 A)
- Frequency range: 30 Hz ... 440 Hz
- Rated voltage: 1000 V, CAT IV
- *Note:* Connection to the instrument is via adapter **MT3423**. The adapter has to be ordered separately.



MT3471, flexible AC current probes 3000 A, 0.8 m

Flexible clamping adapter for enclosing conductors of any shape and in areas difficult to access.

- Diameter: ca. 25 cm
- Output: 2x 4 mm safety plug connection via adapter **MT3423**
- Measuring range: 500 mA ... 3000 A
- Switchable ranges: 3 A, 30 A, 300 A, 3000 A
- Error of measurement with optimal range selection: 3-A-range: <= ±1,0 % / typ. 0,5° (0,5 A ... 3 A) 30-A-range: <= ±1,0 % / typ. 0,5° (2 A ... 30 A) 300-A-range: <= ±1,0 % / typ. 0,5° (30 A ... 300 A)
- 3000-A-range: <= ±1,0 % / typ. 0,5° (300 A ... 3000 A)
- Frequency range: 30 Hz ... 440 Hz
- Rated voltage: 1000 V, CAT IV
- *Note:* Connection to the instrument is via adapter **MT3423**. The adapter has to be ordered separately.

Ord.No. 10

100061320

Ord.No. 100061321

100061322

100032220

Ord.No.

Ord.No.



MT3472, flexible AC current probes 30000 A, 1.2 m

Flexible clamping adapter for enclosing conductors of any shape and in areas difficult to access.

- Diameter: ca. 38 cm
- · Output: 2x 4 mm safety plug connection via adapter MT3424
- Measuring range: 500 mA ... 30000 A
- Switchable ranges: 30 A, 300 A, 3000 A, 30000 A
- Error of measurement with optimal range selection: 30-A-range: <= ±1,0 % / typ. 0,5° (0,5 A ... 30 A) 300-A-range: <= ±1,0 % / typ. 0,5° (10 A ... 300 A) 3000-A-range: <= ±1,0 % / typ. 0,5° (300 A ... 3000 A) 30000-A-range: <= ±1,0 % / typ. 0,5° (300 A ... 30000 A)
- Frequency range: 30 Hz ... 440 Hz
- · Rated voltage: 1000 V, CAT IV
- Note: Connection to the instrument is via adapter MT3424. The adapter has to be ordered separately.



MT3423, adapter "4 mm safety plug to D-Sub plug 25-pin", 1.0 m. For connecting max. three flexible current probes of the same type to the instrument. Suitable for the types MT3470 and MT3471. Equipped with:

- 3x socket for two 4 mm safety plugs
- 1x D-Sub plug, 25-pin



MT342 D-Sub For co of the Suitable for the types MT3472. Equipped with: 3x socket for two 4 mm safety plugs

• 1x D-Sub plug, 25-pin



24, adapter "4 mm safety plug to		
o plug 25-pin", 1.0 m.	Ord.No.	100032221
onnecting max. three flexible current probes		
same type to the instrument.		

Quick connection cable "current/retractable sleeve" for		
 MT series, 12 A, 2.5 m, phase colours: red/yellow/blue To prevent connecting faults on the instrument's side. Instrument's side: 1x 6-pin connector with anti-twist safeguard. Mains side: 6x stackable, spring-loaded 4 mm plugs with retractable sleeve to prevent accidental touching. 2x red, 2x yellow, 2x blue. Cable cross-section: 2.5 qmm 	Ord.No.	100013207
 Quick connection cable "voltage/retractable sleeve" for MT series, 2.5 m, phase colours: red/yellow/blue/black To prevent connecting faults on the instrument's side. Measurement category III (CAT III). Instrument's side: 1x 4-pin connector with anti-twist safeguard. Mains side: 4x stackable, spring-loaded 4 mm plug with retractable sleeve to prevent accidental touching - 1x red, 1x yellow, 1x blue, 1x black Cable cross-section: 2.5 qmm 	Ord.No.	100013307
 Quick connection cable CAT IV for "voltage/rigid sleeve" for MT series, 2.5 m, phase colours: yellow/green/violet/black To prevent connecting faults on the instrument's side. Measurement category IV (CAT IV). Instrument's side: 1x 4-pin connector with anti-twist safeguard. Mains side: 4x 4 mm Multilam plug with rigid insulating sleeve - 1x yellow, 1x green, 1x violet, 1x black Cable cross-section: 2.5 qmm 	Ord.No.	100023472
 Quick connection cable CAT IV for "voltage/rigid sleeve" for MT series, 2.5 m, phase colours: black/brown/grey/blue To prevent connecting faults on the instrument's side. Measurement category IV (CAT IV). Instrument's side: 1x 4-pin connector with anti-twist safeguard. Mains side: 4x 4 mm Multilam plug with rigid insulating sleeve - 1x black, 1x brown, 1x grey, 1x blue 	Ord.No.	100023484

Cable cross-section: 2.5 qmm

100023481

100023482



Quick connection cable for "current/rigid sleeve" for	
MT series, 12 A, 2.5 m, phase colours: yellow/green/red	Ord.No.
For the connection of source and reference standard if they	
are used as separate devices.	
Cable length between the devices is 1.65 m.	
 Instrument's side: 1x 6-pin connector with anti-twist 	

- safeguard.
 Mains side: 6x stackable, spring-loaded 4 mm plugs with rigid insulating sleeve 2x yellow, 2x green, 2x red.
- Cable cross-section: 2.5 qmm



Quick connection cable for "voltage/rigid sleeve" for
MT series, 2.5 m, phase colours: yellow/green/red/blackTo prevent connecting faults on the instrument's side.Measurement category III (CAT III).• Instrument's side: 1x 4-pin connector with anti-twist

- safeguard.
 Mains side: 4x stackable, spring-loaded 4 mm plug with rigid insulating sleeve 1x yellow, 1x green, 1x red, 1x black
- Cable cross-section: 2.5 qmm

Special Accessories (Current and Voltage Cables)

 Laboratory cable with stackable plug, green, 2.0 m Measurement category III (CAT III). 2x stackable 4 mm plugs with rigid insulating sleeve Lead cross section: 2.5 qmm 	Ord.No.	X00006908
 Laboratory cable with stackable plug, violet, 2.0 m Measurement category III (CAT III). 2x stackable 4 mm plugs with rigid insulating sleeve Lead cross section: 2.5 qmm 	Ord.No.	X00006909

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Laboratory cable with stackable plug, brown, 2.0 m		
Measurement category III (CAT III).	Ord.No.	100414100
 2x stackable 4 mm plugs with rigid insulating sleeve 		
Lead cross section: 2.5 qmm		

ZERA

3	 Laboratory cable with stackable plug, grey, 2.0 m Measurement category III (CAT III). 2x stackable 4 mm plugs with rigid insulating sleeve Lead cross section: 2.5 qmm 	Ord.No.	100414103
	 Laboratory cable with stackable plug, white, 2.0 m Measurement category III (CAT III). 2x stackable 4 mm plugs with rigid insulating sleeve Lead cross section: 2.5 qmm 	Ord.No.	100662500
Special Accessor	ies (Connectors)		
	 Connecting terminals for current Isulating screw joint for flexible wire connection max cable size 1,5 16 mm² Socket: 4 mm rigid socket in insulator accepting spring-loaded 4 mm plugs with rigid insulating sleeve. 	Ord.No.	X00011923
	 Adapter for terminal blocks Connection via insulated flexible copper conductor. Socket: 4 mm rigid socket in insulator, made of brass, accepting spring-loaded 4 mm plugs with rigid insulating sleeve. 	Ord.No.	101584400
	 4 mm plug adapter (banana plug) Plug: 4 mm spring-loaded plug, made of brass. Socket: 4 mm rigid socket in insulator accepting spring-loaded 4 mm plugs with rigid insulating sleeve. 	Ord.No.	X00004962



 4 mm cable lug adapters Cable lug adapter, made of brass for permanent installation, e. g. for connecting screw terminals. Socket: 4 mm rigid socket in insulator accepting spring- loaded 4 mm plugs with rigid insulating sleeve. 	Ord.No.	X00004963
 Spring clip Connection via spring clip. Socket: spring-loaded 4 mm plugs with rigid insulating sleeve. 	Ord.No.	100606750
 Test plugs for terminal blocks Plug: 4 mm test plug, made of brass with spring-loaded plug for connecting into rail mounted terminals with 4 mm sockets. Socket: 4 mm rigid socket in insulator accepting spring-loaded 4 mm plugs with rigid insulating sleeve. 	Ord.No.	100102400
 4 mm test clips (crocodile clips), wide Crocodile clip made of brass with all-round insulation. Toothed jaws for wide grip with surface for fine wire. Socket: 4 mm rigid socket in insulator accepting spring- loaded 4 mm plugs with rigid insulating sleeve. 	Ord.No.	X00010059
 4 mm test clips (crocodile clips), slim Small, slim crocodile clip made of brass with all-round insulation. Toothed jaws for wide grip with surface for fine wire. 4 mm rigid socket in insulator accepting spring-loaded 4 mm plugs with rigid insulating sleeve. 	Ord.No.	X00009329





Accessories bag without content DIN A6, material: polypropylene Ord.No. 100214400

Fuse, 1.6 A / 440 V, 6.3 mm x 32 mm, time-lag

Ord.No. m00460183



Special Accessories (Transport)



Carrying strap for reference meter, black, width 25 mm Belt length: 700 - 1,400 mm, adjustable by sliding buckle, metal snap hooks on both sides.





Special Accessories (General)



Adapter "USB to RS232" (32/64 bit), 1.5 m For use with an external PC/Notebook (32/64 bit) with WINDOWS OS (7, 8, 10).

Ord.No. 101421801

100904000



MT3450, Temperature sensor Sensor for measuring of the ambient temperature on site. The measured temperature value is displayed and saved in the MT device. Temperature range: -20° C ... +60° C (± 1° C) Resolution: 0,1° C Cable length: 3 m



Tripod with fixing device for MT310/MT320 devices For mounting and customized positioning of the measuring standard on site.

Ord.No.

100114805

100033852



Plexiglass protection cover for MT3xx, The cover is made of plexiglass and serves for mechanical protection of the LCD display. To enable the access to the soft-key keyboard the cover is designed with cut-outs.

Ord.No. 100053201

Ord.No.

Readjustment (for Service)



Note: Calibration and Calibration report are not included.

Adjustment of MT3xx series

Calibration (for Service)

	Z
FACTO	DRY
50 I	lz
Calibra	tion

FACTORY 60 Hz

Factory Calibration for MT3xx series, 50 Hz		
incl. ZERA calibration report.	Ord.No.	100007038
Load points according to ZERA regulations. Summary of used load points can be downloaded at www.zera.de. Additional load points are subject to charges.		
Factory Calibration for MT3xx series, 60 Hz incl. ZERA calibration report.	Ord.No.	100007054
Load points according to ZERA regulations. Summary of used load points can be downloaded at www.zera.de.		

Additional load points are subject to charges.

FACTORY 50 Hz Calibration	 Factory Calibration for MT3xx series, along with current clamp MT3460*, 50 Hz incl. ZERA calibration report. Load points according to ZERA regulations. Summary of used load points can be downloaded at www.zera.de. Additional load points are subject to charges. *valid also for previous versions 	Ord.No.	101243210
FACTORY	Factory Calibration for MT3xx series, along with current clamp MT3460*, 60 Hz incl. ZERA calibration report.	Ord.No.	101243211
60 Hz Calibration	Load points according to ZERA regulations. Summary of used load points can be downloaded at www.zera.de.		
	Additional load points are subject to charges.		
	*valid also for previous versions		
	Factory Calibration for MT3460 / MT3465 50Hz incl. ZERA calibration report.	Ord.No.	101242304
FACTORY 50 Hz Calibration	Load points according to ZERA regulations. Summary of used load points can be downloaded at www.zera.de.		
	Additional load points are subject to charges.		
	Factory Calibration for MT3460 / MT3465 60Hz		
FACTORY	incl. ZERA calibration report.	Ord.No.	101242305
60 Hz Calibration	Load points according to ZERA regulations. Summary of used load points can be downloaded at www.zera.de.		

Additional load points are subject to charges.

	Factory Calibration for MT3416 / MT3417, 50 Hz incl. ZERA calibration report.	Ord.No.	100519701
FACTORY 50 Hz Calibration	Load points according to ZERA regulations. Summary of used load points can be downloaded at www.zera.de. Additional load points are subject to charges.		
	Factory Calibration for MT3416 / MT3417, 60 Hz incl. ZERA calibration report.	Ord.No.	100519704
FACTORY 60 Hz Calibration	Load points according to ZERA regulations. Summary of used load points can be downloaded at www.zera.de.		
	Additional load points are subject to charges.		
FACTORY Calibration	Factory Calibration for instrument, each additional load point for power and energy	Ord.No.	100007093
	Factory Calibration		
FACTORY Calibration	for instrument, each additional load point for current and/or voltage	Ord.No.	100007094
	Factory Calibration	0.111	
FACTORY	for current clamps, each additional load point for for power and energy	Ord.No.	100007092
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100006838

(DAkks	DAkkS DKD-Calibration for MT3xx, 50 Hz incl. DKD-Calibration Certificate acc. IEC 17025
50 Hz Calibration	Load points according to ZERA regulations. Summary of used load points can be downloaded at www.zera.de.
	Additional load points are subject to charges.
(DAkks	DAkkS DKD-Calibration for MT3xx, 60 Hz incl. DKD-Calibration Certificate acc. IEC 17025
60 Hz Calibration	Load points according to ZERA regulations. Summary of used load points can be downloaded at www.zera.de.
	Additional load points are subject to charges.
	DAkkS DKD-Calibration for MT3xx incl. curren

Ord.No. **100006854**

Ord.No.



DAkkS DKD-Calibration for MT3xx incl. current clamp MT3460, 50 Hz incl. DKD-Calibration Certificate acc. IEC 17025	Ord.No.	101173919
Load points according to ZERA regulations. Summary of used load points can be downloaded at www.zera.de.		
Additional load points are subject to charges.		



DAkkS DKD-Calibration for MT3xx incl. current clamp MT3460, 60 Hz	Ord.No.	101173920
incl. DKD-Calibration Certificate acc. IEC 17025		
Load points according to ZERA regulations. Summary of used load points can be downloaded at www.zera.de.		

Additional load points are subject to charges.



Additional load points are subject to charges.

Calibration	DAkkS DKD-Calibration (acc. IEC 17025) for instrument, each additional load point for power and energy	Ord.No.	100006893
Calibration	DAkkS DKD-Calibration (acc. IEC 17025) for instrument, each additional load point for current / voltage	Ord.No.	100006894
DAkks	DAkkS DKD-Calibration (acc. IEC 17025) for current clamps, each additional load point for power and energy	Ord.No.	100006892



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Notes on using the product catalogue

When ordering, always state the order number.

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