



MT3x0 Product Catalogue

Doc.No: 100352700 Version from: 01.01.2023

Device



MT310 Three Phase Reference Meter CATIII Inclusive adjustment for one mains frequency.

Ord.No.

Ord.No.

100982101

100982401

MT310 is light weight and compact reference meter for on-site verification and calibration of single or three phase meters. Test voltage and test current for the Reference Meter will be measured at mains on-site or can be generated and measured via external source (optional). (e.g. *MT400* oder *MT500*)

MT310 is designed for testing of max. 1 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)



MT310 Three Phase Reference Meter CAT IV

Inclusive adjustment for one mains frequency.

MT310 is light weight and compact reference meter for on-site verification and calibration of single or

three phase meters. Test voltage and test current for the Reference Meter will be measured at mains on-site or can be generated and measured via external source (optional). (e.g. *MT400* oder *MT500*)

MT310 is designed for testing of max. 1 test specimen.

Configuration:

Direct current measurement up to 300 V / 12 A

•<u>Voltage input</u> designed for protection class **CATIV**

- Accuracy for power/energy measurement: < ±0.1 %
 Burden measurement for instrument transformer
- installations
- Wide range of accessories (optional)

	MT320 Three Phase Reference Meter CATIII		
A TRACTOR	Inclusive adjustment for <u>one</u> mains frequency.	Ord.No.	100973802
	<i>MT320</i> is light weight and compact reference meter for on-site verification and calibration of single or three phase meters. Test voltage and test current for the Reference Meter will be measured at mains on-site or can be generated and measured via external source (optional). (e.g. <i>MT400</i> oder <i>MT500</i>)		
	MT320 is designed for testing of max. 1 test specimen.		
	 <u>Configuration:</u> Direct current measurement up to 300 V / 12 A Accuracy for power/energy measurement: < ±0.05 % Burden measurement for instrument transformer installations Wide range of accessories (optional) 		
	MT320 Three Phase Reference Meter CAT IV Inclusive adjustment for <u>one</u> mains frequency.	Ord.No.	100983501
	<i>MT320</i> is light weight and compact reference meter for on-site verification and calibration of single or		

for on-site verification and calibration of single or three phase meters. Test voltage and test current for the Reference Meter will be measured at mains on-site or can be generated

and measured via external source (optional).

(e.g. *MT400* oder *MT500*)

MT320 is designed for testing of max. 1 test specimen.

Configuration:

ZERA

• Direct current measurement up to 300 V / 12 A

•<u>Voltage input</u> designed for protection class **CATIV**

- Accuracy for power/energy measurement: < ±0.05 %
- Burden measurement for instrument transformer installations
- Wide range of accessories (optional)

Factory Calibrati	ion for New Instrument		
r actory calibrati	ion for New Instrument		
CALIBRATION	Factory Calibration for NEW MT3xx series, 50 Hz incl. ZERA calibration report.	Ord.No.	100007055
50Hz Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration ton Calibration Calibration	This article applies only for a purchase of new device.		
Calibration Calibration Calibration Calibration Calibration Calibration 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.		
CALIBRATION	Factory Calibration for NEW MT3xx series, 60 Hz incl. ZERA calibration report.	Ord.No.	100007056
60Hz Calibration Calibration Cali-	This article applies only for a purchase of new device.		
irration Calibration Calibra- tius Calibration Calibration Calibration Calibration Calibra- bration Calibration Calibra-	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.		
CALIBRATION CALIBRATION Ealibration Calibration Calibration Calibration Calibration Calibration Edibration Calibration Calibration Fristion Calibration Calibration	Factory Calibration for instrument, each additional load point for power and energy	Ord.No.	100007093
CALIBRATION CALIBRATION CALIBRATION Calibration Calibra- tion Calibration Calibra- tion Calibration Calibra- tion Calibration Calibra-	Factory Calibration for instrument, each additional load point for current and/or voltage	Ord.No.	100007094
DAkkS DKD-Cali	bration for Instrument		
CALIBRATION	DAkkS DKD-Calibration for MT3xx, 50 Hz incl. DKD-Calibration Certificate acc. IEC 17025	Ord.No.	100006838
500Hz calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibra	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.		

CALIBRATION 50Hz Estilbrita Calibrates Calib	 DAkkS DKD-Calibration for MT3xx incl. current clamp MT3460, 50 Hz 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. 	Ord.No.	101173919
	Additional load points are subject to charges.		
CALIBRATION	DAkkS DKD-Calibration for MT3xx, 60 Hz incl. DKD-Calibration Certificate acc. IEC 17025	Ord.No.	100006854
GOOHZ Calibration Calibration Calibra- tor Calibration Calibra- tion Calibration Calibra- tor Calibration Calibra- bration Calibration Calibra-	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.		
CALIBRATION 60Hz Galibration Calibration Calibration Calibration Calibration Calibration	DAkkS DKD-Calibration for MT3xx incl. current clamp MT3460, 60 Hz incl. DKD-Calibration Certificate acc. IEC 17025 Load points according to ZERA regulations.	Ord.No.	101173920
lion Calibration Calibration Calibration Calibration Galibration Calibration Calibra-	Summary of used load points can be downloaded at www.zera.de.		
	Additional load points are subject to charges.		
CALIBRATION CALIBRATION CALIBRATION Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration 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

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)

Current Clamps (see also Special Accessories) MT3460, AC current clamp set Ord.No. 101241501 Electronically compensated, calibration independent from the instrument. 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 Measuring Category: CAT IV 300 V /CAT III 600 V MT3416, AC current clamp set 300 A Ord.No. 100319200 cable length: 2 m Electronically compensated, calibration independent from the instrument. 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 Å) < ±0,6 % / < 0,15° (200 mA ... 500 mA) • Frequency range: 45 ... 65 Hz Rated voltage: 600 V, CAT III / 300 V, CAT IV Factory Calibration for NEW Current Clamps Factory Calibration for NEW MT3460 / MT3465, 50 Hz Ord.No. 101242308 incl. ZERA calibration report. CALIBRATION 50Hz This article applies only for a purchase of new device. ion Calibratio 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.

CALIBRATION 500Hz Millerdiae Calibration attose Calibration Calibration alloration Calibration alloration Calibration alloration Calibration Cali- ation Calibration Calibra	 Factory Calibration for NEW MT3416 / MT3417, 50 Hz incl. ZERA calibration report. <i>This article applies only for a purchase of new device.</i> 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. 	Ord.No.	100519702
ALIBRATION 600H2 Mikration Calibration Cal	 Factory Calibration for NEW MT3460 / MT3465, 60 Hz incl. ZERA calibration report. <i>This article applies only for a purchase of new device.</i> 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. 	Ord.No.	101242309
CALIBRATION 60Hz Mibration Calibration Calibration Calibration Mibration Calibration Mibration Calibration Mibration Calibration Calibration Calibration	 Factory Calibration for NEW MT3416 / MT3417, 60 Hz incl. ZERA calibration report. This article applies only for a purchase of new device. 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. 	Ord.No.	100519705



Factory Calibration for current clamps, each additional load point for for power and energy

Ord.No. **100007092**

kS Calibrat	ion for Current Clamps		
alibration	DAkkS DKD-Calibration for MT3460 / MT3465, 50 Hz incl. DKD-Calibration Certificate acc. IEC 17025	Ord.No.	10117391
500Hz libration Calibration Calibration Calibration Calibration Calibration to Calibration Calibration libration Calibration 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 MT3416 / MT3417, 50 Hz Incl. DKD-Calibration Certificate acc. IEC 17025	Ord.No.	10051960
CALIBRATION 500Hz alibration Calibration Calibration Calibration Calibration en Calibration Calibration alibration Calibration calibration 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.		
alibration	DAkkS DKD-Calibration for MT3460 / MT3465, 60 Hz incl. DKD-Calibration Certificate acc. IEC 17025	Ord.No.	1011739
600Hz Dalibration Calibration Calibra- ion Calibration Calibra- ion Calibration Calibra- Dalibration Calibration Calibra- ration Calibration Calibra-	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 MT3416 / MT3417, 60 Hz incl. DKD-Calibration Certificate acc. IEC 17025	Ord.No.	1005196
CALIBRATION 600Hz alibration Calibration for Calibration Calibration for Calibration Calibration alibration Calibration Calibration alibration Calibration 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.		
CALIBRATION	DAkkS DKD-Calibration (acc. IEC 17025) for current clamps, each additional load point for power and energy	Ord.No.	1000068

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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
	 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	ge 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 xx please select the colour 	Ord.No.	1014308xx
Software			
	Software SSM3000 / MTVis The software runs under Windows 7 or 10. • SSM3000: For external control via PC.	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.

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20:02:2007 10:00 U1: 10: MH: [S:rective [250 V] C10 A GHA Of:I.L N P DA GHA N P DA 0.0000 D.0000 D.0000 HA 10:0000 0.00000 D.00000 D.00000 D.00000 HA HA 2:0:0000 0.00000 D.00000 D.00000 D.00000 HA HA 4:0:0000 -0.00000 D.00000 D.00000 D.00000 HA HA 4:0:0000 -0.00000 D.00000 D.00000 D.00000 D.00000 HA HA 4:0:0000 -0.00000 D.00000 D.00000 D.00000 HA HA 4:0:0000 -0.00000 D.00000 D.00000 D.00000 HA HA HA 9:0:0000 -0.00000 D.00000 D.00000 D.00000 HA HA HA 10:0:0000 -0.00000 D.00000 D.00000 D.00000 HA	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 ШК: IR: НИ: Возаво поде: В:0 В:0 В:0 В:0 Dosage negy: 7.45510 Б:0 В:0 В:0 В:0 Dosage energy: 7.45510 Б:0 В:0 В:0<	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)		
TERA THIS DS INTERIOS INTERIOS INTERIOS INTERIOS	 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
	 TK326-1, 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

100319600

101091620



Holding device for scanning head TK326/ TK118 Stretchable holding device to fix the scanning head TK326 or TK118 at the electricity meter. Maximum wingspan: 19.0 cm. Ord.No.



For pulse detection of floating contacts as well as of	Ord.No.	10000421
S0 pulse output on electricity meters. Including two laboratory		
cables with safety plug/connection pin.		
Connection cable for scanning head input (SC) on		
	Ord.No.	Z1035302
ZERA instruments with RJ10 socket		
ZERA Instruments with RJ10 socket The spiral cable connects TKxxx and K121 to the instrument.		
The spiral cable connects TKxxx and K121 to the		

ZZ8636 Start-stop pushbutton for signal entry	
	Ord.No.
entry when testing electricity meters.	

Connectors (see also Special Accessories)

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Accessories bag with connection a	dapters		
01 Accessories bag	100214400	Ord.No.	100023714
03 Spring clip	100606750		
04 4-mm plug adapter (banana plug)	X00004962		
10 Adapter for terminal blocks	101584400		
10 Connecting terminals for current	X00011923		
03 4-mm test clips	X00009329		
(crocodile clips), slim			
03 4-mm test clips	X00010059		
(crocodile clips), wide			
10 Fuse, 1.6 A / 440 V,	M00460183		
6.3 mm x 32 mm, time-lag			

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 • 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 Stick	Ord.No. 100090716

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Special Accesso	ories	
	 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 Accesso	ories (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 MTxxx 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: < ±1.5 % / 1.5° (75 A) < ±0.75 % / 0.75° (300 A) < ±0.5 % / 0.5° (1500 A) Frequency range: 48 65 Hz Rated voltage: 600 V, CAT III / 300 V, CAT IV Note: Connection to MTxxx via input for direct current measurement. 	Ord.No. 100032401



MT3470, flexible AC current probes 3000 A, 0.45 m

Flexible clamping of any conductor to be measured (cable, bar, core, etc.) even on places 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 of any conductor to be measured (cable, bar, core, etc.) even on places 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: <= $\pm 1,0 \%$ / typ. 0,5° ($300 \text{ A} \dots 3000 \text{ A}$)
- 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.

100061320

Ord.No. 100061321

100061322

100032220

100032221

Ord.No.

Ord.No.

Ord.No.



MT3472, flexible AC current probes 30000 A, 1.2 m

Flexible clamping of any conductor to be measured (cable, bar, core, etc.) even on places 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 Å) 3000-A-range: <= ±1,0 % / typ. 0,5° (300 A ... 3000 Å) 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



Subject to change without notice.

MT3424, 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 MT3472. Equipped with: 3x socket for two 4 mm safety plugs

• 1x D-Sub plug, 25-pin



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 <u>source</u> and <u>reference standard</u> 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/blackOrd.No.To prevent connecting faults on the instrument's side.Measurement category III (CAT III).Ord.No.• 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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heastrement category in (CAT in).		
Measurement category III (CAT III).	Ord.No.	100414100
 2x stackable 4 mm plugs with rigid insulating sleeve 		
 Lead cross section: 2.5 qmm 		

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	 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.	100739800
	 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.	X00004961
	 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



100214400



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

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.





101421801

Ord.No.

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).



Temperature sensor MT3450 Ord.No. 100904000 Temperature sensor can be used for measuring of the ambient temperature on site. The temperature value will be displayed and stored inside 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 fixing and individual positioning of the instrument.	Ord.No.	100114805
	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 terminal the cover is equipped with gaps.	Ord.No.	100053201
Readjustment (on	ly for Service)		
A D J U ST M E N T A djustment Aljørnent Alvatmen Fal- justment Aljørnent Aljøre	Adjustment of MT3xx series <i>Note:</i> Calibration and Calibration report are not included.	Ord.No.	100033852
A D J U ST M E N T Adjustment Ajustment Ad- justment Adjustment Adjustment Adjustment Adjustment Adjustment Adjustment Adjustment Adjustment Adjustment Adjustment	Adjustment of current clamp MT3430/3460 or MT3422/3465 Note: Calibration and Calibration report are not included.	Ord.No.	101243212
Adjustment Adjustment	Adjustment of current clamp MT3416 / MT3417 Note: Calibration and Calibration report are not included.	Ord.No.	100033894

are not included.

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Factory Calibra	tion (only for Service)		
CALIBRATION 50H2 Calibratic Calibration Calibratic Calibration Calibratic Calibration Calibratic Calibration Calibratic Calibration Calibratic Calibration	 Factory Calibration for MT3xx series, 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. 	Ord.No.	100007038
CALIBRATION 50Hz Calibratica Calibration Calibratica Calibration Calibratica Calibration Calibration Calibration Calibration Calibration Calibration 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
CALIBRATION 600Hz Calibratic Calibratics Calibratics Calibratics Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration	 Factory Calibration for MT3xx series, 60 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. 	Ord.No.	100007054
CALIBRATION 60Hz Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration	 Factory Calibration for MT3xx series, along with current clamp MT3460*, 60 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. 	Ord.No.	101243211

*valid also for previous versions

CALIBRATION CALIBRATION CALIBRATION Distriction Calibration Calibra- tion Calibration Calibra- tion Calibration Calibra- Calibration Calibration Calibra- terion Calibration Calibra-	Factory Calibration for instrument, each additional load point for power and energy	Ord.No.	100007093
CALIBRATION CALIBRATION Edibration Editoration Editorito Editoration Editoration Editorito Editoration Editoration Editorito Editoration Editoration Editoration	Factory Calibration for instrument, each additional load point for current and/or voltage	Ord.No.	100007094
CALIBRATION	Factory Calibration for MT3460 / MT3465 50Hz incl. ZERA calibration report.	Ord.No.	101242304
CALIBRATION 500 H 20 Calibration Calibration Fration Calibration Calibration Calibration Calibration Calibration Calibration Calibration 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		
CALIBRATION 500HZ. Salivation Calibration Calibra- tion Calibration Calibra- tion Calibration Calibra- Calibration Calibration Calibra- bration Calibration Calibra-	 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. 	Ord.No.	100519701
	Factory Calibration for MT3460 / MT3465 60Hz	Ord.No.	101242305
CALIBRATION 600HZ Calibration Calibration Calibration Calibration Calibration Calibration Laibration Calibration C	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.

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Factory Calibration for MT3416 / MT3417, 60 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.



Factory Calibration for current clamps, each additional load point for for power and energy

Ord.No. 100007092

Ord.No.



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Notes on using the product catalogue

When ordering, always state the order number.

Pictures can differ from original product.

We follow ZVEI terms of delivery, see on www.zera.de