



MT3000Reference_meter

Product Catalogue

Doc.No: 100352714 Version from: 01.01.2023

101198100

Device



MT3000[RM] Three Phase Reference Meter (12 A / Class 0,02)

Inclusive adjustment for one mains frequency.

MT3000[RM] is a modular designed Reference Meter and offers flexible option to add modules for enhanced functions or to increase the number of test specimen. 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. MT551)

MT3000[RM] as standard configuration is designed for comprehensive testing of max. 1 test specimen.

Standard Configuration:

- Direct current measurement up to 300 V / 12 A
- Accuracy for power/energy measurement: < ±0.02 %
- 1 x Meter Test Module 1 (MT3504)

Individual configuration with test modules possible.



MT3000[RM] Three Phase Reference Meter (12 A / Class 0.05)

Inclusive adjustment for one mains frequency.

MT3000[RM] is a modular designed Reference Meter and offers flexible option to add modules for enhanced functions or to increase the number of test specimen. 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. MT551)

MT3000[RM] as standard configuration is designed for comprehensive testing of max. 1 test specimen.

Standard Configuration:

- Direct current measurement up to 300 V / 12 A
- Accuracy for power/energy measurement: < ±0.05 %
- 1 x Meter Test Module 1 (MT3504)

Individual configuration with test modules possible.

Ord.No.

Ord.No.



 MT3000[RM] Three Phase Reference Meter (120 A / Class 0,02) Inclusive adjustment for <u>one</u> mains frequency. <i>MT3000[RM]</i> is a modular designed Reference Meter and offers flexible option to add modules for enhanced functions or to increase the number of test specimen. 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>MT551</i>) <i>MT3000[RM]</i> as standard configuration is designed for comprehensive testing of max. 1 test specimen. Standard Configuration: Direct current measurement up to 600 V / 120 A Accuracy for power/energy measurement: < ±0.02 % 1 x Meter Test Module 1 (MT3504) Individual configuration with test modules possible. 	Ord.No.	101198101
 MT3000[RM] Three Phase Reference Meter (120 A / Class 0,05) Inclusive adjustment for <u>one</u> mains frequency. MT3000[RM] is a modular designed Reference Meter and offers flexible option to add modules for enhanced functions or to increase the number of test specimen. 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>MT551</i>) MT3000[RM] as standard configuration is designed for comprehensive testing of max. 1 test specimen. Standard Configuration: Direct current measurement up to 600 V / 120 A Accuracy for power/energy measurement: < ±0.05 % 1 x Meter Test Module 1 (MT3504) Individual configuration with test modules possible. 	Ord.No.	101198151

Factory Calibrat	tion for New Instrument		
CALIBRATION 500H2 Solitzation Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration	 Factory Calibration for NEW MT3000 12 A, 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.	100007030
CALIBRATION 500HZ. Salivates calibration calibration calibration calibration calibration calibration calibration calibration calibration calibration	 Factory Calibration for NEW MT3000 120 A, 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.	100007047
CALIERATION 60HZ Calibrates Calibration Calibrations Calibrates Calibration Calibrations Calibratics Calibration Calibration Calibration Calibration Calibration	 Factory Calibration for NEW MT3000 12 A, 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.	100519743
CALIBRATION 600HZ Fallvztes Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration	 Factory Calibration for NEW MT3000 120 A, 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. 	Ord.No.	100519744

Additional load points are subject to charges.

Version from: 01.01.2023

100007093

Ord.No.





CALIBRATION

CALIBRATION

Factory Calibration Ord.No. 100007094 for instrument, each additional load point for current and/or voltage

DAkkS DKD-Calibration for Instrument

Factory Calibration

for instrument, each additional

load point for power and energy

calibration 50Hz	DAkkS DKD-Calibration for MT3000 12 A, 50 Hz incl. DKD-Calibration Certificate acc. IEC 17025 Load points according to ZERA regulations.	Ord.No.	100006828
Guibration Calibration Cali- bration Calibration Calibra- tion Calibration Calibration Calibration Calibration Cali- bration Calibration Calibra-	Summary of used load points can be downloaded at www.zera.de.		
	Additional load points are subject to charges.		
CALIBRATION	DAkkS DKD-Calibration for MT3000 120 A, 50 Hz incl. DKD-Calibration Certificate acc. IEC 17025	Ord.No.	100006847
500Hz Calibration Calibration Calibration Calibration Calibration Unio 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.		
	DAkkS DKD-Calibration for MT3000 12 A, 60 Hz	Ord No	400540000
CALIBRATION	incl. DKD-Calibration Certificate acc. IEC 17025	Ord.No.	100519623
	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 Calibrates Editorias Editorias Editorates Editorias Calibrates Editorias Calibrates Editorias Calibrates Editorias	 DAkkS DKD-Calibration for MT3000 120 A, 60 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. Additional load points are subject to charges. 	Ord.No.	100519650
CALIBRATION CALIBRATION CALIBRATION Calibration Calibration Calibration tion Calibration Calibration Calibration Calibration Calibration Distance Calibration Calibration	DAkkS DKD-Calibration (acc. IEC 17025) for instrument, each additional load point for power and energy	Ord.No.	100006893
CALIBRATION CALIBRATION CALIBRATION Galibraties Galibraties Untion Galibraties Galibraties Galibraties Galibraties Galibraties Galibraties Distance Galibraties Galibraties	DAkkS DKD-Calibration (acc. IEC 17025) for instrument, each additional load point for current / voltage	Ord.No.	100006894
Power Cords			
WIC?	Power cord "Class I grounded plug type E/F to IEC 60320 C13", 2.5 m For supply via power socket. • 1x class I grounded plug type E/F (CEE 7/7), straight • 1x socket IEC 60320 C13	Ord.No.	M00481006
	 Power cord "Plug type B to IEC 60320 C13", 2.5 m For supply via power socket. 1x plug type B 1x socket IEC 60320 C13 	Ord.No.	X00006459



Power cord "Plug type I to IEC 60320 C13", 2.5 m		
For supply via power socket. • 1x plug type I (AS/NZS 3112, 3-pin) • 1x socket IEC 60320 C13	Ord.No.	X00006460
Power cord "Plug type G (BS 1363)	Ord.No.	V0000022
to IEC 60320 C13", 2.5 m For supply via power socket. • 1x Plug type G (BS 1363) • 1x socket IEC 60320 C13	UIU.NO.	X00009832
 Power cord "Plug type D (BS 546)	Ord.No.	100929900
to IEC 60320 C13", 1.8 m For supply via power socket. • 1x Plug type D (BS 546) • 1x socket IEC 60320 C13		100323300
Power cord "Plug type H" to IEC 60320 C13", 1.8 m For supply via power socket. • 1x Plug type H • 1x socket IEC 60320 C13	Ord.No.	100929903
Power cord with protective earth "stackable safety plug		
to IEC 60320 C13", 2,5 m For supply via test voltage.	Ord.No.	100067609

- For supply via test voltage.
 3x stackable, spring-loaded 4 mm plugs with rigid insulating sleeve (1x black, 1x blue, 1x yellow/green)
 1x socket IEC 60320 C13

urrent Clamps	(see also Special Accessories)		
	 MT3465, AC current clamp set 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 	Ord.No.	101241500
	MT3417, AC current clamp set 300 A Useable only in combination with MT3000. 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: $< \pm 0,15 \% / < 0,1^{\circ} (1 A 300 A)$ $< \pm 0,3 \% / < 0,1^{\circ} (500 mA 1 A)$ $< \pm 0,6 \% / < 0,15^{\circ} (200 mA 500 mA)$ • Frequency range: 45 65 Hz • Rated voltage: 600 V, CAT III / 300 V, CAT IV	Ord.No.	100319201
actory Calibrat	ion for NEW Current Clamps		
CALIBRATION 500Hz Salibratus Celibratus Calibratus Celibratus Calibratus Celibratus Calibratus Celibratus Calibratus Celibratus Calibratus Celibratus	 Factory Calibration for NEW MT3460 / MT3465, 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. 	Ord.No.	101242308

CALIBRATION 500H2 Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration	 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
CALIBRATION BOOHZ Alibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration	 Factory Calibration for NEW MT3460 / MT3465, 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.	101242309
CALIBRATION BOOHZ Edibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration C	 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**

DAkkS Calibrat	ion for Current Clamps		
CALIBRATION 500H2 Calibrates Galibration Gali- bratan Galibration Galibration Galibrate Galibration Gali- bration Galibration Galibration Galibration Galibration Galibration	 DAkkS DKD-Calibration for MT3460 / MT3465, 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. Additional load points are subject to charges. 	Ord.No.	101173912
CALIBRATION 500Hz Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration	 DAkkS DKD-Calibration for MT3416 / MT3417, 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. Additional load points are subject to charges. 	Ord.No.	100519600
CALIBRATION 600H2 Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration	 DAkkS DKD-Calibration for MT3460 / MT3465, 60 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. Additional load points are subject to charges. 	Ord.No.	101173913
CALIBRATION 60HZ Calibrates Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration	 DAkkS DKD-Calibration for MT3416 / MT3417, 60 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. Additional load points are subject to charges. 	Ord.No.	100519603
CALIBRATION CALIBRATION CALIBRATION Calibration Calibration Calibration	DAkkS DKD-Calibration (acc. IEC 17025) for current clamps, each additional load point for power and energy	Ord.No.	100006892

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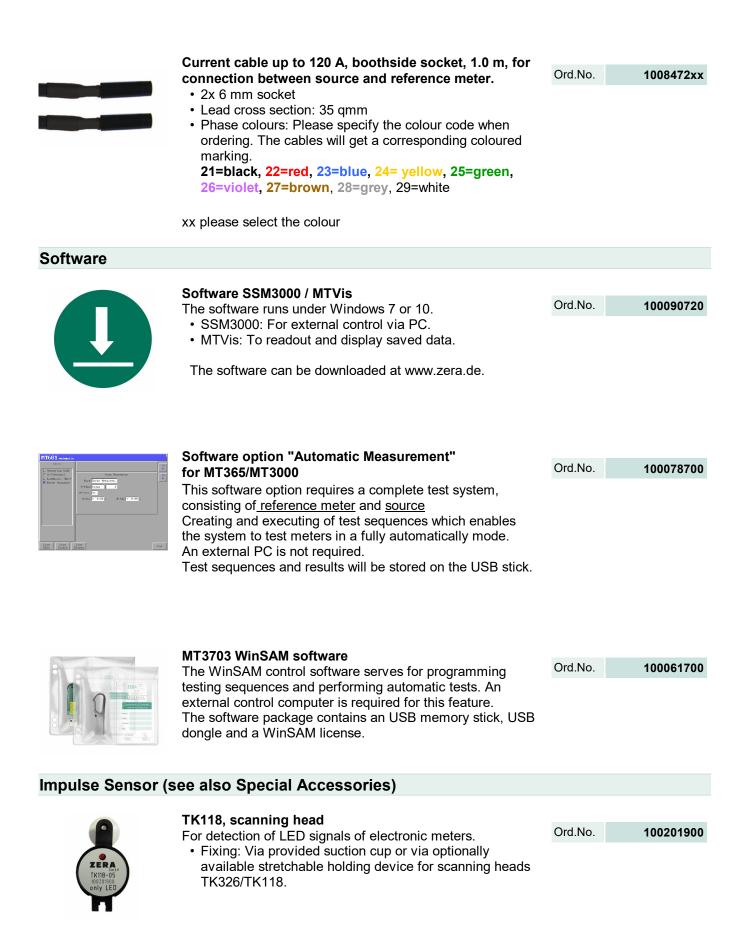
Quick Connection	n Cable (see also Special Accessories)		
	 Quick connection cable "voltage/rigid sleeve" for MT series, 2.5 m, phase colours: red/yellow/blue/black To prevent connecting faults on the instrument's side. Measurement category III (CAT III). Instrument's side: 1x 4-pin connector with anti-twist 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 "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
Current and Volta	ige 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
 Current cable up to 120 A, on double-side socket, 2.0 m, 2x 6 mm socket Lead cross section: 35 qmm Phase colours: Please specify the colour code when ordering. The cables will get a corresponding coloured marking. 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.	1011979xx
 Plug-in Adapter Pin 3 mm For meter connection via terminal, realised as brass silver plated. The two sides of the pin has different diameters and functions. 1 Side 6 mm pin for test leads 1 Side 3 mm-pin for meter terminals The 6 mm pin is special designed for ZERA 6 mm socket system used with current test leads. 	Ord.No.	Z10120115
 Plug-in Adapter Pin 4,2 mm For meter connection via terminal, realised as brass silver plated. The two sides of the pin has different diameters and functions. 1 Side 6 mm pin for test leads 1 Side 4,2 mm-pin for meter terminals The 6 mm pin is special designed for ZERA 6 mm socket system used with current test leads. 	Ord.No.	Z10120112



Plug-in Adapter Pin 5,5 mm For meter connection via terminal,	Ord.No.	Z10120108
 realised as brass silver plated. The two sides of the pin has different diameters and functions. 1 Side 6 mm pin for test leads 1 Side 5,5 mm-pin for meter terminals The 6 mm pin is special designed for ZERA 6 mm socket system used with current test leads. 		
Plug-in Adapter Pin 6 mm The adapter is realized in brass silver plated.	Ord.No.	Z10120109
The two sides of the pin have the same dimensions (6 mm) and are special designed for ZERA 6 mm socket system used with current test leads and/or connection to modern ZERA meter test system (MTS).		
Plug-in Adapter cable lug 8,5 mm closed For current connection via screw terminals,	Ord.No.	100640906
 realised as brass silver plated. The two sides of the pin has different connectors and functions. 1 Side 6 mm pin for test leads 1 Side 8,5 mm-cable lug closed in for screw terminals The 6 mm pin is special designed for ZERA 6 mm socket system used with current test leads. 		
Plug-in Adapter cable lug 10,5 mm closed	Ord.No.	100640907
For current connection via screw terminals, realised as brass silver plated. The two sides of the pin has different connectors and functions. • 1 Side 6 mm pin for test leads • 1 Side 10,5 mm- cable lug closed in for screw	010.110.	100040307

terminals The 6 mm pin is special designed for ZERA 6 mm socket system used with current test leads.



101064901

101091620

100023731



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.

 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.	100319600



Connection cable for scanning head input (SC) on ZERA instruments with RJ10 socket	Ord.No.	Z10353027
The spiral cable connects TKxxx and K121 to the		
nstrument.		
 2x Modular connector RJ10 		
 Length: 1.00 m / expanded: 6.00 m 		

Ord.No.

Connectors (see also Special Accessories)

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Accessories bag with connection a	adapters	
01 Accessories bag	100214400	Ord.No.
03 Spring clip	100606750	
04 4-mm plug adapter (banana plug)	X00004962	
10 Adapter for terminal blocks	X00004961	
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, 3,15 A / 440 V		
5 mm x 20 mm, time-lag	M00460252	
10 Fuse, 15 A / 440 V		
5 mm x 20 mm, time-lagM004602	259	

ZZ8636 Start-stop pushbutton for signal entry

entry when testing electricity meters.

The start-stop pushbutton is used for manual signal

Transport (see al	so Special Accessories)		
	 Transport Case 1 with wheels for MT3000[RM] Ultra High Impact Copolymer Polypropylene case with inlet from rigid foam, designed for 1 MT3000 Reference Meter [RM] up to max. 1 test module with 120 A version up to max. 2 test modules with 12 A version Accessories Overall dimensions: 60 cm x 51 cm × 23 cm (H x W x D) Please clarify whether the case size is suitable for the ordered number of test modules and accessories. 	Ord.No.	100023900
	 Transport Case 2 with wheels for MT3000[RM] Ultra High Impact Copolymer Polypropylene case with inlet from rigid foam, designed for 1 MT3000 Reference Meter [RM] up to max. 2 test modules with 120 A version up to max. 3 test modules with 12 A version Accessories Overall dimensions: 62,2 cm x 49,2 cm × 30,3 cm (H x W x D) Please clarify whether the case size is suitable for the ordered number of test modules and accessories. 	Ord.No.	100023905
	 Transport Case 3 with wheels for MT3000[RM] Ultra High Impact Copolymer Polypropylene case with inlet from rigid foam, designed for 1 MT3000 Reference Meter [RM] with 1 x MT3504 up to max. add. 3 test module with 120 A version up to max. add. 4 test modules with 12 A version Accessories Overall dimensions: 63 cm x 49,2 cm × 35,2 cm (H x W x D) Please clarify whether the case size is suitable for the ordered number of test modules and accessories. 	Ord.No.	100023906
Standard Access	ories (see also Special Accessories)		
	USB Stick		
ra Verbaim ZERA	USB-Stick To store customer data and measuring values. Provides easy data transfer from the instrument to the PC.	Ord.No.	101198310





	MT3502 Meter module 2 The MT3502 serves as expansion of the meter module 1 MT3504 and provide additionally the following possibilities: • 4 S0-Inputs for pulse output testing • 4 S0-Outputs for pulse input testing • 1 RS232-interface for meter reading acc. to IEC61107 • 1 RS485-interface for meter reading acc. to IEC61107 • 1M-Bus interface for meter reading acc. to IEC61107	Ord.No.	Z10300901
	 MT3503 - Meter module 3 The MT3503 serves as expansion of the meter module 2 MT3502 and provide additionally the following possibilities: 6x S0-Inputs for pulse output testing 6x S0-Outputs for pulse input testing (The MT3503 is supported by using WinSAM control software only.) 	Ord.No.	Z10301100
	 MT3303 Small signal measuring module The MT3303 is an expansion of the MT3301/-02 and serves for direct measurement of voltages up to +/-10 V and currents up to +/-20 mA. The module is particular suitable for testing of transducers 6 freely programmable inputs for either voltage or current measurement. By connecting additional current clamps and voltage dividers it is also suitable for simultaneous three phase measurement of primary and secondary values on instrument transformers. All values and units for the measuring channels are freely selectable and allowing to connect a wide range of different transducers. Measuring accuracy <0.1% 	Ord.No.	Z10300700
Special Accessor	ies		
	 Power cord with protective earth "stackable safety plug to IEC 60320 C13", 2,5 m For supply via test voltage. 3x stackable, spring-loaded 4 mm plugs with rigid insulating sleeve (1x brown, 1x blue, 1x yellow/green) 1x socket IEC 60320 C13 	Ord.No.	100067610

• 1x socket IEC 60320 C13

	 Power cord with protective earth "stackable safety plug to IEC 60320 C13", 2,5 m For supply via test voltage. 3x stackable, spring-loaded 4 mm plugs with rigid insulating sleeve (1x red, 1x black, 1x yellow/green) 1x socket IEC 60320 C13 	Ord.No.	100067611
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 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 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



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

Special Accessor	ies (Quick Connection Cable)		
	 Quick connection cable 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 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 violet, 1x black Cable cross-section: 2.5 qmm 	Ord.No.	100023413
	 Quick connection cable for "current/rigid sleeve" for MT series, 12 A, 2.5 m, phase colours: yellow/green/violet 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 yellow, 2x green, 2x violet. Cable cross-section: 2.5 qmm 	Ord.No.	100023412
Special Accessor	ies (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
	Laboratory cable with stackable plug, brown, 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.	100414100

Subject to change without notice.

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.	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

Subject to change without notice.

100214400

M00460259



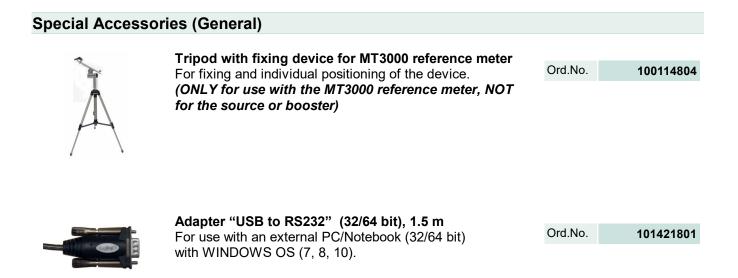
Accessories bag without content DIN A6, material: polypropylene Ord.No.



Fuse, 3.15 A, 5 mm x 20 mm, time-lag Ord.No. M00460252

Ord.No.

Fuse 15A/ time-lag type







Temperature sensor MT3450Ord.No.100904000Temperature sensor can be used for measuring of the
ambient temperature on site.Ord.No.100904000The 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 mOrd.No.100904000



Coaxial cable with BNC plug, 2 m 2x BNC plug 	Ord.No.	Z09548320
Plexiglass protection cover MT3206 for MT3201,		
The modul MT3206 is made of plexiglass and serves for mechanical protection of the LCD	Ord.No.	100053200
display MT3201. To enable the access to the soft-key terminal the cover is equipped with gaps.		

Readjustment (only for Service)

Image: The ENT Ord.No. 100033889 Image: The ENT Note: Calibration and Calibration report are not included. 100033889	STMENT Ord.No. 100033889 STMENT Note: Calibration and Calibration report are not included. Statisticated Adjustment	Ord.No. 10003388 Note: Calibration and Calibration report are not included.	_	Adjustment of MT3000 reference standard 12 A		
Iment Juarent Ader Markent Ader	Note: Calibration and Calibration report are not included.	Note: Calibration and Calibration report are not included. are not included.		· ··· , ······························	Ord.No.	100033889
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Adjustment of MT3000 reference standard 120 A		
	Ord.No.	100033888
Note: Calibration and Calibration report		
are not included.		

ADJUSTMENT Adjustment Adjustment Adjustment Ad- justment Adjustment Adjustment Adjustment Adjustment Adjustment Adjustment Adjustment Adjust	Adjustment of current clamp MT3430/3460 or MT3422/3465 Note: Calibration and Calibration report are not included.	Ord.No.	101243212
A D J U STMENT Adjustment Adjustment Adjustment Ad- justment Adjustment Adjustment Adjustment Adjustment Adjustment Adjustment Adjustment Adjust	Adjustment of current clamp MT3416 / MT3417 Note: Calibration and Calibration report are not included.	Ord.No.	100033894
Factory Calibrati	on (only for Service)		
CALIBRATION 50Hz 50Hz Salivator Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration	 Factory Calibration for MT3000 12 A, 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.	100890800
CALIBRATION 50 H Z Salivator Giliration Cali- iration Giliration Calibration Galivation Giliration Calibration Calibration Calibration Calibration	 Factory Calibration for MT3000 120 A, 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.	100890802
CALIBRATION 60HZ Calibration Calibration Calibration Calibration Calibration tion Calibration Calibration Calibration Calibration Calibration bration Calibration Calibration	Factory Calibration for MT3000 12 A, 60 Hz incl. ZERA calibration report. Load points according to ZERA regulations. Summary of used load points can be downloaded at www.zera.de.	Ord.No.	100890801

Additional load points are subject to charges.

ZERA

CALIBRATION	Factory Calibration for MT3000 120 A, 60 Hz incl. ZERA calibration report.	Ord.No.	100890803
Calibration Calibr	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 MT3460 / MT3465 50Hz incl. ZERA calibration report.	Ord.No.	101242304
500Hz Calibratica Galibratica Galibratica Galibratica Galibratica Galibratica Calibratica Galibratica Calibratica Galibratica Galibratica Destina Galibratica Galibratica	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 MT3416 / MT3417, 50 Hz incl. ZERA calibration report.	Ord.No.	100519701
500H Calibration Calibration Calibration Calibration Calibration 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 MT3460 / MT3465 60Hz	Ord.No.	101242305
calibration 60Hz	incl. ZERA calibration report.	010.110.	101242303
Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibr	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
600HZ Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Fraction 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.

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Factory Calibration for instrument, each additional load point for power and energy

Factory Calibration for instrument, each additional load point for current and/or voltage

Ord.No. 100007094

Ord.No.



100007093









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Notes on using the product catalogue

When ordering, always state the order number.

Pictures can differ from original product.

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