



MT500

Product Catalogue

Doc.No: 100352708 Version from: 01.01.2024

1016732xx

Ord.No.

Device



MT500 Three Phase Current/Voltage Source

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	$xx \rightarrow 03$	

MT500 is designed for generation of test voltage and test current for one test specimen.

Configuration:

- 3~ phase voltage generation up to 300 V (AC)
- 3~ phase current generation up to 12 A (AC)
- · Light and compact design

Power Cords



Power cord with protective earth "stackable safety plug		
to IEC 60320 C13", 2,5 m	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 		



Power cord "Class I grounded plug type E/F to IEC 60320 C13", 2.5 m	Ord.No.	M00481006
 For supply via power socket. 1x class I grounded plug type E/F (CEE 7/7), straight 1x socket IEC 60320 C13 		



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) to IEC 60320 C13", 2.5 m For supply via power socket. • 1x Plug type G (BS 1363) • 1x socket IEC 60320 C13	Ord.No.	X00009832
	Power cord "Plug type D (BS 546) to IEC 60320 C13", 1.8 m For supply via power socket. • 1x Plug type D (BS 546) • 1x socket IEC 60320 C13	Ord.No.	100929900
	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
Quick Connectior	n Cable (see also Special Accessories)		
	 Quick connection cable "current/rigid sleeve" for source, MT series, sloped, 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, 30° sloped. Mains side: 6x stackable, spring-loaded 4 mm plugs with rigid insulating sleeve. 2x red. 2x yellow. 2x blue 	Ord.No.	100023452

- rigid insulating sleeve. 2x red, 2x yellow, 2x blue.Cable cross-section: 2.5 qmm

100023454

100023456

Ord.No.



Quick connection cable for "voltage/rigid sleeve" for MT series, 2.5 m, phase colours: red/yellow/blue/black To prevent connecting faults on the instrument's side.

- 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 gmm



Quick connection cable "voltage/rigid sleeve" for Ord.No. source-instrument, MT series, 2.5 m, phase colours: red/vellow/blue/black For the connection of source and reference standard if they are used as separate devices. Cable length between the devices is 1.65 m. · Reference standard's side : 1x 4-pin connector with anti-twist safeguard. 1x 4-pin connector (slim) without 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



· Lead cross section: 2.5 gmm

1	 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
Software			
	Software SSM3000 / MTVis The software runs under Windows 7 or 10. • SSM3000: For external control via PC. • MTVis: To readout and display saved data. The software can be downloaded at www.zera.de.	Ord.No.	100090720
27.02.2007 14:36 UF IF Maxmanische Harmanische 20.0 Club A ALH CH: UII I; I; 24.6 1 x N Betrag Hinkel III 10 0.01 × 0.06 × IIII 12 0.04 × 7.57 × IIII 13 0.04 × 7.57 × IIII 14 0.00 × 0.00 × IIII 13 0.04 × 7.57 × IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Software option for harmonic measurement, MT400/MT500 The harmonic measurement displays the value and angle of each single harmonic (voltage and current) up to the 40 th in a chart or a diagram. Additionally the sum of all harmonics is displayed.	Ord.No.	100078830

Kurve	250	V C100	A 4LW
CH-1:UL 180↓	4 CH-2:[L1	SEL
140			~2
100		11	
60		/ /	
	120 180	240 300	360 0
-60	$\langle \rangle$	/	
100	X		
-140			
	-		

Software option for curve display, MT400/MT500

For simultaneous display of two curves (voltage and/or current measurement channels). Via the curve display you can see at a glance if the fundamental frequency differs from the sinus curve. Ord.No. 100078

100078831

100023960

100062802

Prs Ord.1 214400 Ord.1 606750 004962 584400 011923 009329 010059 460252	lo. 100023727
	06750 004962 84400 011923 009329 010059

Transport (see also Special Accessories)



Transport Case for MT400 / MT500, with cable caseAluminum case with inlet from rigid foam, designed forOrd.No.• 1 Instrument• Accessories• AccessoriesOverall dimensions:44 cm x 47 cm × 25 cm (H x W x D)

Please clarify whether the case size is suitable for the ordered accessories.



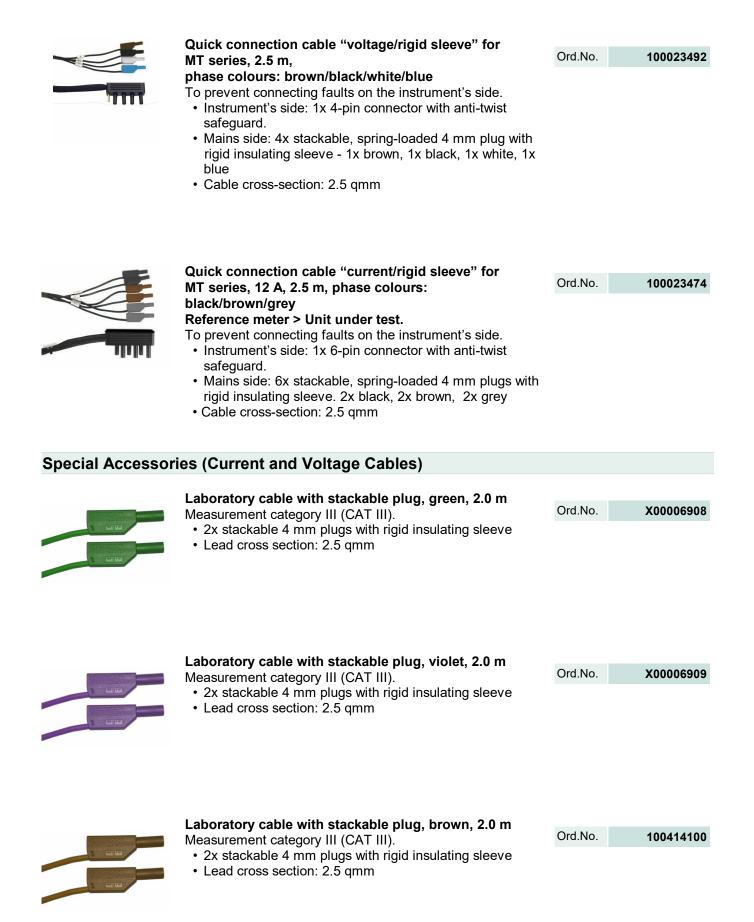
Transport Bag for MT400 / MT500Nylon bag which is special designed for the instrument.The bag protects against dust and scratches.The bag is designed for 1 InstrumentOverall dimensions:34 cm x 29 cm × 23,5 cm (H x W x D)

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
	Protection cover for MT series 3xx/400/500 To protect the front plate against mechanical collision during transport without transport case.	Ord.No.	100466700
	Coaxial cable with BNC plug, 2 m • 2x BNC plug	Ord.No.	Z09548320
Documentation			
	Complete Documentation as pdf files on USB flash drive	Ord.No.	100090716
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 brown, 1x blue, 1x yellow/green) 1x socket IEC 60320 C13

Special Accessor	 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
	 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.	100023476
	 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. 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.	100023418
	 Quick connection cable "current/rigid sleeve" for MT series, 12 A, 2.5 m, phase colours: black/brown/white 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 black, 2x brown, 2x white Cable cross-section: 2.5 qmm 	Ord.No.	100023493





	 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

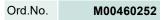


100214400



Accessories bag without content DIN A6, material: polypropylene

Fuse, 3.15 A, 5 mm x 20 mm, time-lag



Ord.No.

Ord.No.



Special Accessories (Transport) Accessories bag Ord.No. 100148209 Nylon bag with inlet from rigid foam, designed for Test leads Scanning head • Current clamps • • Etc. Overall dimensions: 41 cm x 31 cm × 16 cm (H x W x D) Please clarify whether the bag size is suitable for the ordered accessories. Special Accessories (General) Adapter "USB to RS232" (32/64 bit), 1.5 m Ord.No. 101421801



For use with an external PC/Notebook (32/64 bit) with WINDOWS OS (7, 8, 10).

Readjustment (for Service)



Note: Calibration and Calibration report are not included.

Adjustment of MT500

100033859

Calibration (for Service) Factory Calibration for MT500, 50 Hz Ord.No. 100519726 incl. ZERA calibration report. **FACTOR** 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 MT500, 60 Hz Ord.No. 100519727 incl. ZERA calibration report. FACTORY Load points according to ZERA regulations. 60 Hz Summary of used load points can be downloaded at www.zera.de. Additional load points are subject to charges. **Factory Calibration** Ord.No. 100007093 for instrument, each additional load point for power and energy FACTORY **Factory Calibration** Ord.No. 100007094 for instrument, each additional load point for current and/or voltage FACTORY DAkkS DKD-Calibration for MT500, 50 Hz Ord.No. 100519626 incl. DKD-Calibration Certificate acc. IEC 17025 (DAkkS Load points according to ZERA regulations. 50 Hz Summary of used load points can be downloaded at www.zera.de.

Additional load points are subject to charges.

DAkks 60 Hz Calibration	 DAkkS DKD-Calibration for MT500, 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.	100519627
Calibration	DAkkS DKD-Calibration (acc. IEC 17025) for instrument, each additional load point for power and energy	Ord.No.	100006893
(Dakks	DAkkS DKD-Calibration (acc. IEC 17025) for instrument, each additional load point for current / voltage	Ord.No.	100006894



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Notes on using the product catalogue

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