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**ZERA**

**MT500**  
**Product Catalogue**

Doc.No: 100352708  
Version from: 01.01.2023

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## Device



**MT500 Three Phase Current/Voltage Source**  
Inclusive adjustment for one mains frequency.

Ord.No. **100283905**

*MT500* is designed for generation of test voltage and test current for max. 1 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

## Factory Calibration for New Instrument



**Factory Calibration for NEW MT500, 50 Hz**  
incl. ZERA calibration report.

Ord.No. **100007053**

*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](http://www.zera.de).

Additional load points are subject to charges.



**Factory Calibration for NEW MT500, 60 Hz**  
incl. ZERA calibration report.

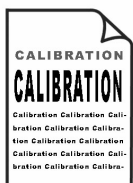
Ord.No. **100519725**

*This article applies only for a purchase of new device.*

**Load points according to ZERA regulations.**

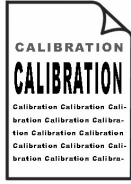
Summary of used load points can be downloaded at [www.zera.de](http://www.zera.de).

Additional load points are subject to charges.



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

Ord.No. **100007093**



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

Ord.No. **100007094**

**DAkKS DKD-Calibration for Instrument**

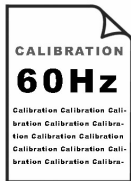


**DAkKS DKD-Calibration for MT500, 50 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **100519626**

**Load points according to ZERA regulations.**  
Summary of used load points  
can be downloaded at [www.zera.de](http://www.zera.de).

Additional load points are subject to charges.

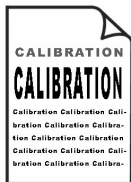


**DAkKS DKD-Calibration for MT500, 60 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **100519627**

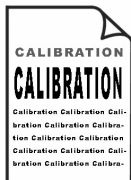
**Load points according to ZERA regulations.**  
Summary of used load points  
can be downloaded at [www.zera.de](http://www.zera.de).

Additional load points are subject to charges.



**DAkKS DKD-Calibration (acc. IEC 17025)**  
for instrument, each additional  
load point for power and energy

Ord.No. **100006893**



**DAkKS DKD-Calibration (acc. IEC 17025)**  
for instrument, each additional  
load point for current / voltage

Ord.No. **100006894**

## Power Cords



### 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 black, 1x blue, 1x yellow/green)
- 1x socket IEC 60320 C13

Ord.No. **100067609**



### 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) 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**



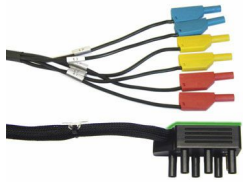
**Power cord “Plug type H”  
to IEC 60320 C13“, 1.8 m**

For supply via power socket.

- 1x Plug type H
- 1x socket IEC 60320 C13

Ord.No. **100929903**

### Quick Connection Cable (see also Special Accessories)

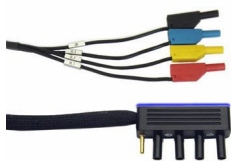


**Quick connection cable “current/rigid sleeve” for  
source, MT series, sloped, 2.5 m, phase colours:  
red/yellow/blue**

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.
- Cable cross-section: 2.5 qmm

Ord.No. **100023452**

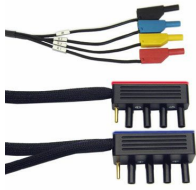


**Quick connection cable for “voltage/rigid sleeve” for  
MT series, 2.5 m, phase colours: red/yellow/blue/black**

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 qmm

Ord.No. **100023454**



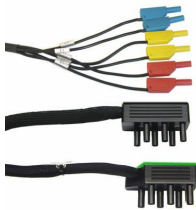
**Quick connection cable “voltage/rigid sleeve” for source-instrument, MT series, 2.5 m, phase colours: red/yellow/blue/black**

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

Ord.No. **100023456**



**Quick connection cable “current/rigid sleeve” for source-instrument, MT series, 2.5 m, phase colours: red/yellow/blue**

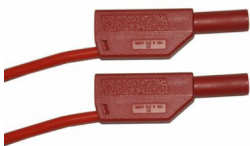
For the connection of source and reference standard if they are used as separate devices.

Cable length between the devices is 1.65 m.

- Instrument's side:
  - 1x 6-pin connector with anti-twist safeguard.
  - 1x 6-pin connector, 30° sloped, 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. **100023455**

## Current and Voltage 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**

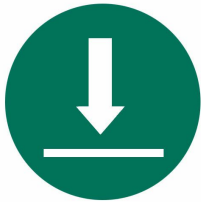


**Laboratory cable with stackable plug, black, 2.0 m**

- Measurement category III (CAT III).
- 2x stackable 4 mm plugs with rigid insulating sleeve
  - Lead cross section: 2.5 qmm

Ord.No. **X00006910**

**Software**

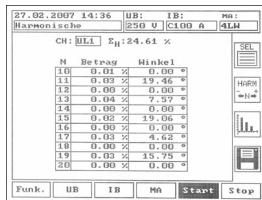


**Software SSM3000 / MTVis**

- The software runs under Windows 7 or 10.
- SSM3000: For external control via PC.
  - MTVis: To readout and display saved data.

Ord.No. **100090720**

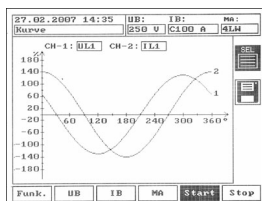
The software can be downloaded at [www.zera.de](http://www.zera.de).



**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<sup>th</sup> in a chart or a diagram. Additionally the sum of all harmonics is displayed.

Ord.No. **100078830**



**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. **100078831**

## Connectors (see also Special Accessories)



### Accessories bag with connection adapters

01	Accessories bag	100214400
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 (crocodile clips), slim	X00009329
03	4 mm test clips (crocodile clips), wide	X00010059
10	Fuse, 3.15 A, 5 mm x 20 mm, time-lag	M00460252

Ord.No. **100023727**

## Transport (see also Special Accessories)



### Transport Case for MT400 / MT500, with cable case

Aluminum case with inlet from rigid foam, designed for

- 1 Instrument
- Accessories

Overall dimensions: 44 cm x 47 cm x 25 cm (H x W x D)

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

Ord.No. **100023960**



### Transport Case for MT400 / MT500

Aluminum case with inlet from rigid foam, designed for

- 1 Instrument

Overall dimensions: 37 cm x 45 cm x 25 cm (H x W x D)

Ord.No. **100023961**



### Transport Bag for MT400 / MT500

Nylon bag which is special designed for the instrument.

The bag protects against dust and scratches.

The bag is designed for:

- 1 Instrument

Overall dimensions: 34 cm x 29 cm x 23,5 cm (H x W x D)

Ord.No. **100062802**





### Accessories bag

Nylon bag with inlet from rigid foam, designed for

- Test leads
- Scanning head
- Current clamps
- Etc.

Overall dimensions: 41 cm x 31 cm x 16 cm (H x W x D)

*Please clarify whether the bag size is suitable for the ordered accessories.*

Ord.No. **100148209**

## Standard Accessories (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**



### 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**

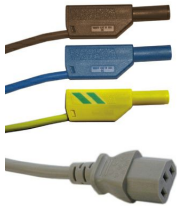
## Documentation



### Complete documentation as pdf files on USB Stick

Ord.No. **100090716**

## Special Accessories



### 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**



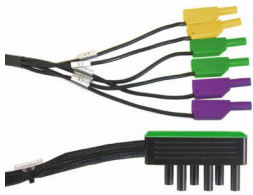
### Power cord with protective earth "stackable safety plug to IEC 60320 C13", 2,5 m

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 Accessories (Quick Connection Cable)



### 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**

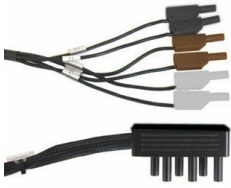


### Quick connection cable for "voltage/rigid sleeve" for MT series, 2,5 m, phase colours: yellow/green/violet/black

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**

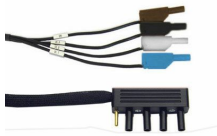


**Quick connection cable “current/rigid sleeve” for MT series, 12 A, 2.5 m, phase colours: black/brown/white**

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**

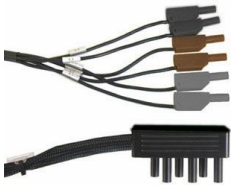


**Quick connection cable “voltage/rigid sleeve” for MT series, 2.5 m, phase colours: brown/black/white/blue**

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 brown, 1x black, 1x white, 1x blue
- Cable cross-section: 2.5 qmm

Ord.No. **100023492**



**Quick connection cable “current/rigid sleeve” for MT series, 12 A, 2.5 m, phase colours: black/brown/grey**

**Reference meter > Unit under test.**

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 grey
- Cable cross-section: 2.5 qmm

Ord.No. **100023474**

## 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**

- 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**

- 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 Accessories (Connectors)



- Connecting terminals for current**
- Insulating screw joint for flexible wire connection  
max cable size 1,5 ... 16 mm<sup>2</sup>
  - 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****Accessories bag without content**

DIN A6, material: polypropylene

Ord.No. **100214400****Fuse, 3.15 A, 5 mm x 20 mm, time-lag**Ord.No. **M00460252****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**

### Readjustment (only for Service)



#### Adjustment of MT500

Ord.No. 100033859

Note: Calibration and Calibration report are not included.

### Factory Calibration (only for Service)



#### Factory Calibration for MT500, 50 Hz incl. ZERA calibration report.

Ord.No. 100519726

Load points according to ZERA regulations. Summary of used load points can be downloaded at [www.zera.de](http://www.zera.de).

Additional load points are subject to charges.

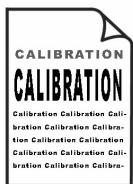


#### Factory Calibration for MT500, 60 Hz incl. ZERA calibration report.

Ord.No. 100519727

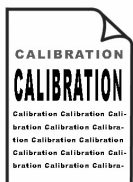
Load points according to ZERA regulations. Summary of used load points can be downloaded at [www.zera.de](http://www.zera.de).

Additional load points are subject to charges.



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

Ord.No. 100007093



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

Ord.No. 100007094

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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](http://www.zera.de)