MT500

Product Catalogue

Subject to change without notice.

Device

MT500 Three Phase Current/Voltage Source
Inclusive adjustment and factory calibration
for <u>one</u> mains frequency.

Calibration	Ord.No.	Add.Price
Factory 50 Hz	xx --> 00	0,00 EUR
Factory 60 Hz	xx --> 01	0,00 EUR
DAkkS 50 Hz	xx --> 02	1.012,00 EUR
DAkkS 60 Hz	xx --> 03	1.012,00 EUR

Ord.No. **1016732xx**

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

<u>Configuration:</u>
• 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
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**

Subject to change without notice.

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.
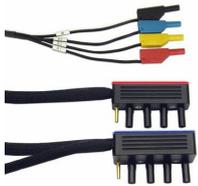- Cable cross-section: 2.5 qmm

Ord.No.	100023452

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

Ord.No. **100023454**

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

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

Ord.No. **100023456**

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

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

Ord.No. **100023455**

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

Current and Voltage Cables (see also Special Accessories)

Laboratory cable with stackable plug, red, 2.0 m

Ord.No. **X00007597**

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

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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
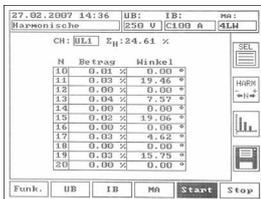- Lead cross section: 2.5 qmm

| Ord.No. | X00006910 |

Software

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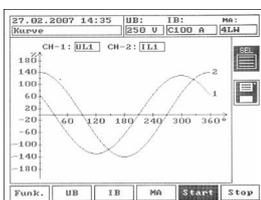- MTVis: To readout and display saved data.

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

| Ord.No. | 100090720 |

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 40th 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 |

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Subject to change without notice.

Connectors (see also Special Accessories)

Accessories bag with connection adapters

01	Accessories bag	100214400
03	Spring clip	100606760
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 (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 × 25 cm (H x W x D)

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

Ord.No. **100023960**

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 × 23,5 cm (H x W x D)

Ord.No. **100062802**

Standard Accessories (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

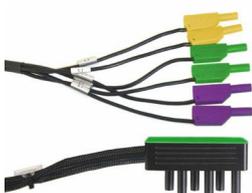Ord.No. **100090716**

Special 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.

Ord.No. **100023476**

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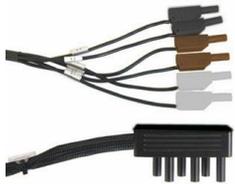
• Cable cross-section: 2.5 qmm

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

Subject to change without notice.

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.	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 Accessories (Connectors)

Subject to change without notice.

Connecting terminals for current
- Isulating screw joint for flexible wire connection max cable size 1,5 ... 16 mm^2
- 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.	100606760

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

Subject to change without notice.

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 (Transport)

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 × 16 cm (H x W x D)

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

Ord.No.	100148209

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).

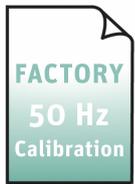Ord.No.   **101421801**

Readjustment (for Service)

Adjustment of MT500

Note: Calibration and Calibration report
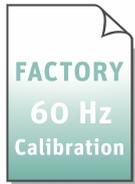   are not included.

Ord.No.   **100033859**

Calibration (for Service)

Factory Calibration for MT500, 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.   **100519726**

Factory Calibration for MT500, 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.   **100519727**
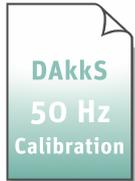
**Factory Calibration
for instrument, each additional
load point for power and energy**

Ord.No.   **100007093**

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Subject to change without notice.

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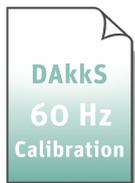**load point for current and/or voltage**

Ord.No.   **100007094**

DAkkS DKD-Calibration for MT500, 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.   **100519626**

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**

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**

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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