



ZERA

MT78x
Product Catalogue

Doc.No: 100352716
Version from: 01.07.2022

Device



MT781 Three Phase Test System

Inclusive adjustment for one mains frequency.

Ord.No.

101360201

MT781 consists a reference meter and a current/voltage source integrated in one device. Test voltage and test current will be injected by the test system or measured at mains on-site as application of test system without source.

MT781 is designed for testing of max. 1 test specimen.

Configuration:

- Direct current measurement up to 500 V / 120 A
- Accuracy for power/energy measurement: < ± 0.1 %
- 3~ phase current generation up to 120 A (AC)
- 3~ phase voltage generation up to 500 V (AC)



MT786 Three Phase Test System

Inclusive adjustment for one mains frequency.

Ord.No.

101360301

MT786 consists a reference meter and a current/voltage source integrated in one device. Test voltage and test current will be injected by the test system or measured at mains on-site as application of test system without source.

MT786 is designed for testing of max. 1 test specimen.

Configuration:

- Direct current measurement up to 500 V / 120 A
- Accuracy for power/energy measurement: < ± 0.05 %
- 3~ phase current generation up to 120 A (AC)
- 3~ phase voltage generation up to 500 V (AC)

Factory Calibration for New Instrument



Factory Calibration for NEW MT78x series, 50 Hz
incl. ZERA calibration report.

Ord.No.

100519756

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.



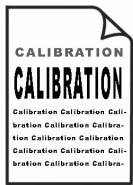
Factory Calibration for NEW MT78x series, 60 Hz
incl. ZERA calibration report.

Ord.No. **100519757**

This article applies only for a purchase of new device.

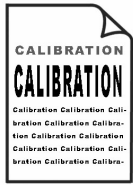
Load points according to ZERA regulations.
Summary of used load points
can be downloaded at www.zera.de.

Additional load points are subject to charges.



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 MT78x, 50 Hz
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **100519639**

Load points for the reference meter
according to ZERA regulations.
Summary of used load points
can be downloaded at www.zera.de.

Additional load points are subject to charges.

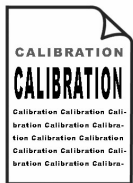


DAkKS DKD-Calibration for MT78x, 60 Hz
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **100519640**

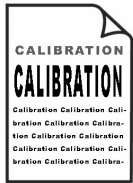
Load points for the reference meter according to ZERA regulations.
Summary of used load points can be downloaded at www.zera.de.

Additional load points are subject to charges.



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

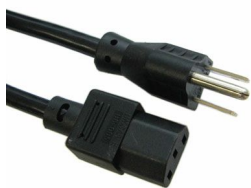
Ord.No. **100006893**



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

Ord.No. **100006894**

Power Cords



Power cord "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**

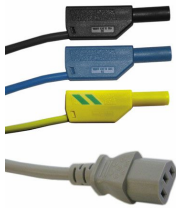


**Power cord "Class I grounded plug type E/F
to IEC 60320 C13", 2.5 m**

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 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 "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**

**ZZ8625 Power connection box**

Connections: red, yellow, blue; black
For supply via test voltage.

Connecting the instrument via the power connection box fulfills the requirements of CAT IV.

Ord.No.	100701010
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Current Clamps (see also Special Accessories)

**MT3460, 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:
 - < $\pm 0.15\%$ @ 500 mA ... 120 A
 - < $\pm 0.3\%$ @ 100 mA ... < 500 mA
- Frequency range: 45 ... 65 Hz
- Measuring Category: CAT IV 300 V /CAT III 600 V

Ord.No.	101241501
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**MT3416, AC current clamp set 300 A
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:
 - < $\pm 0,15\%$ / < $0,1^\circ$ (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.	100319200
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Factory Calibration for NEW Current Clamps

**Factory Calibration for NEW MT3460 / MT3465, 50 Hz**
incl. ZERA calibration report.

Ord.No.	101242308
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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.



Factory Calibration for NEW MT3416 / MT3417, 50 Hz
incl. ZERA calibration report.

Ord.No. **100519702**

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.



Factory Calibration for NEW MT3460 / MT3465, 60 Hz
incl. ZERA calibration report.

Ord.No. **101242309**

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.



Factory Calibration for NEW MT3416 / MT3417, 60 Hz
incl. ZERA calibration report.

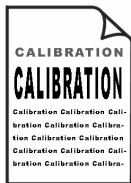
Ord.No. **100519705**

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.



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

Ord.No. **100007092**

DAkKS Calibration for Current Clamps



DAkKS DKD-Calibration for MT3460 / MT3465, 50 Hz
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173912**

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. **100519600**

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 MT3460 / MT3465, 60 Hz
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173913**

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.

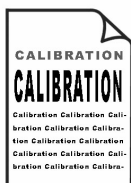


DAkKS DKD-Calibration for MT3416 / MT3417, 60 Hz
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **100519603**

Load points according to ZERA regulations.
Summary of used load points
can be downloaded at www.zera.de.

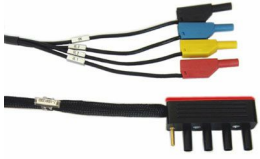
Additional load points are subject to charges.



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

Ord.No. **100006892**

Quick Connection Cable (see also Special Accessories)

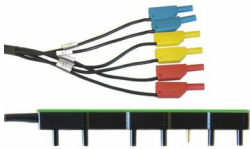


Quick connection cable "voltage/rigid sleeve" for MT series, 2.5 m, phase colours: red/yellow/blue/black

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**



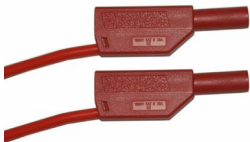
Quick connection cable for "current/rigid sleeve", 2.5 m, phase colours: red/yellow/blue (max. 24 A) for MT681, MT551, MT78x

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

Ord.No. **100023408**

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**

- 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

Ord.No. **1011979xx**

xx please select the colour



- 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, 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.

Ord.No. **Z10120108**



Plug-in Adapter Pin 6 mm

The adapter is realized in brass silver plated. 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).

Ord.No. **Z10120109**



Plug-in Adapter cable lug 8,5 mm closed

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 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.

Ord.No. **100640906**



Plug-in Adapter cable lug 10,5 mm closed

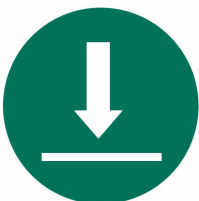
For current connection via screw terminals, realised as brass silver plated. The two sides of the pin has different connectors and functions.

- 1 Side 6 mm **pin for test leads**
- 1 Side 10,5 mm-**cable lug closed in for screw terminals**

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

Ord.No. **100640907**

Software



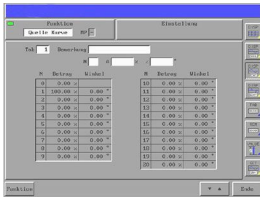
Software SSM3000 / MTVis

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**



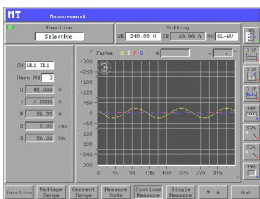
Software Option for Curve Definition

Software module for generation of harmonic signals:

Ord.No. **100078840**

- Voltage up to 40th max. amplitude 40% from fundamental
- Current up to 40th max. amplitude 40% from fundamental

The module included also defining of programmable wave forms in current and/or voltage line.



Software option for selective power measurement MT681/MT680s/MT78x/MT36x

Ord.No. **100078860**

To determine and display active, reactive and apparent power on each harmonic value up to 40th.



MT3703 WinSAM software

The WinSAM control software serves for programming testing sequences and performing automatic tests. An external control computer is required for this feature. The software package contains an USB memory stick, USB dongle and a WinSAM license.

Ord.No. **100061700**

Impulse Sensor (see also Special Accessories)



TK118, scanning head

For detection of LED signals of electronic meters.

Ord.No. **100201900**

- Fixing: Via provided suction cup or via optionally available stretchable holding device for scanning heads TK326/TK118.



TK326-1, scanning head without holding device

For detection of rotor disc markings on Ferraris meters and LED signals on electronic meters.

Ord.No. **101064901**

- 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**

**K121, S0 pulse converter with measuring leads**

For pulse detection of floating contacts as well as of S0 pulse output on electricity meters. Including two laboratory cables with safety plug/connection pin.

Ord.No. **100004210**

**Connection cable for scanning head input (SC) on ZERA instruments with RJ10 socket**

The spiral cable connects TKxxx and K121 to the instrument.

- 2x Modular connector RJ10
- Length: 1.00 m / expanded: 6.00 m

Ord.No. **Z10353027**

**ZZ8636 Start-stop pushbutton for signal entry**

The start-stop pushbutton is used for manual signal entry when testing electricity meters.

Ord.No. **101091620**

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 | 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, 5 A / 500 V AC,
6.3 mm x 32 mm, time-lag | M00460187 |

Ord.No. **100023730**

Transport (see also Special Accessories)



Trolley transportation system for MT78x, pneumatic tires Ø180mm
3-stages extendable pull-out handle with wheels for comfortable transport. Via a snap-lock system the device case can be securely fixed and easily released.

Ord.No. **100425102**



Accessories case
Aluminum case with inlet from rigid foam, designed for

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

Overall dimensions: 42 cm x 50 cm x 16 cm (H x W x D)

Ord.No. **X00004823**

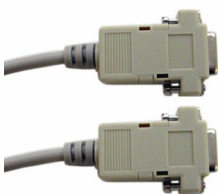
Please clarify whether the case size is suitable for the ordered accessories.

Standard Accessories (see also Special Accessories)



USB-Stick
To store customer data and measuring values. Provides easy data transfer from the instrument to the PC.

Ord.No. **101198310**



Interface cable, RS232, crossed wired (null modem cable)
Connection cable

- 2x D-Sub socket, 9-pin
- Cable length: 3.00 m

Ord.No. **X00010844**

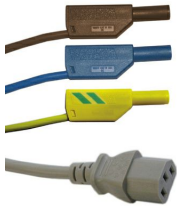
Documentation



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 (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:
 - < $\pm 0.3\%$ / 0.7° (100 A ... 1200 A)
 - < $\pm 0.5\%$ / 1.0° (10 A ... 100 A)
 - < $\pm 1.0\%$ / 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:
 - < $\pm 1.5\%$ / 1.5° (75 A)
 - < $\pm 0.75\%$ / 0.75° (300 A)
 - < $\pm 0.5\%$ / 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: $\leq \pm 1,0\%$ / typ. $0,5^\circ$ (0,5 A ... 3 A)
 - 30-A-range: $\leq \pm 1,0\%$ / typ. $0,5^\circ$ (2 A ... 30 A)
 - 300-A-range: $\leq \pm 1,0\%$ / typ. $0,5^\circ$ (30 A ... 300 A)
 - 3000-A-range: $\leq \pm 1,0\%$ / typ. $0,5^\circ$ (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.

Ord.No.	100061320
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**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: $\leq \pm 1,0\%$ / typ. $0,5^\circ$ (0,5 A ... 3 A)
 - 30-A-range: $\leq \pm 1,0\%$ / typ. $0,5^\circ$ (2 A ... 30 A)
 - 300-A-range: $\leq \pm 1,0\%$ / typ. $0,5^\circ$ (30 A ... 300 A)
 - 3000-A-range: $\leq \pm 1,0\%$ / typ. $0,5^\circ$ (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.

Ord.No.	100061321
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**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: $\leq \pm 1,0 \%$ / typ. 0,5° (0,5 A ... 30 A)
 - 300-A-range: $\leq \pm 1,0 \%$ / typ. 0,5° (10 A ... 300 A)
 - 3000-A-range: $\leq \pm 1,0 \%$ / typ. 0,5° (300 A ... 3000 A)
 - 30000-A-range: $\leq \pm 1,0 \%$ / 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.

Ord.No.	100061322
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**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

Ord.No.	100032220
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**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.

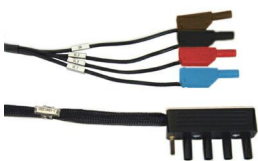
Suitable for the types **MT3472**.

Equipped with:

- 3x socket for two 4 mm safety plugs
- 1x D-Sub plug, 25-pin

Ord.No.	100032221
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Special Accessories (Quick Connection Cable)

**Quick connection cable "voltage/rigid sleeve" for MT series, 2.5 m, phase colours: brown/black/red/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 red, 1x blue
- Cable cross-section: 2.5 qmm

Ord.No.	100023410
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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

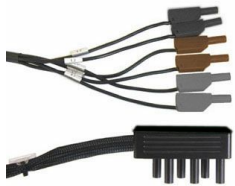
Ord.No. **100023413**



Quick Acting Connection Cable for Current / 24A

The Quick connection cable set consists of a fixed detachable block for the MT system and 4mm safety plugs for the connection at the unit under test. **(brown, black, red)**

Ord.No. **100023409**



**Quick connection cable “current/rigid sleeve”, 12 A, 2.5 m
phase colours: brown/black/white**
for MT681, MT78x

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 brown, 2x black, 2x white
- Cable cross-section: 2.5 qmm

Ord.No. **100023494**

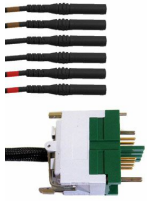


**Quick connection cable for “current/rigid sleeve”, 2.5 m
phase colours: yellow/green/violet (max. 24 A)**
for MT68x, MT551, MT78x

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 plug with rigid insulating sleeve - 2x yellow, 2x green, 2x violet
- Cable cross-section: 2.5 qmm

Ord.No. **100023424**

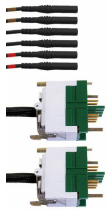


Adapter cable "current/single Entrelec" for MT681, MT78x, 12 A, 0.5 m

To connect the instrument to metering installations with Entrelec connector system.

- Instrument's side: 6x 4mm safety plugs
- Mains side: 1x multipoint Entrelec plug
- Cable cross section: 2.5 qmm

Ord.No. **100013227**



Adapter cable "current/dual Entrelec" for MT681, MT78x, 12 A, 0.5 m

To connect the instrument to metering installations with Entrelec connector system.

- Instrument's side: 6x 4mm safety plugs
- Mains side: 2x multipoint Entrelec plug
- Cable cross section: 2.5 qmm

Ord.No. **100013228**



Adapter plug PETM-AC "ESSAILEC to 4 mm safety plug"

The PETM-AC adapter plug has been designed for voltage connection to ESSAILEC systems.

- 1x ESSAILEC plug
- 4x socket for 4 mm safety plugs

Ord.No. **100424300**



Adapter plug PSTM-AC "SECURA to 4 mm safety plug"

The PSTM-AC adapter plug has been designed for voltage connection to SECURA systems.

- 1x SECURA plug
- 4x socket for 4 mm safety plugs

Ord.No. **100424301**

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 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****Accessories bag without content**

DIN A6, material: polypropylene

Ord.No. **100214400****Fuse, 5 A / 500 V AC, 6.3 mm x 32 mm, time-lag**Ord.No. **m00460187****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 x 16 cm (H x W x D)

*Please clarify whether the bag size is suitable for the ordered accessories.*Ord.No. **100148209**



Nylon bag

Nylon bag for transport of accessories. With smooth-rolling wheels and telescopic handle.

- Dimensions: H 490 mm × W 420 mm × D 250 mm

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

Ord.No. **100148203**

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**



Temperature sensor MT3450

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

Ord.No. **100904000**

Readjustment (only for Service)



Adjustment of MT78x series

Note: Calibration and Calibration report are not included.

Ord.No. **100033895**



**Adjustment of current clamp
MT3430/3460 or MT3422/3465**

Note: Calibration and Calibration report are not included.

Ord.No. **101243212**



Adjustment of current clamp MT3416 / MT3417

Ord.No. **100033894**

Note: Calibration and Calibration report are not included.

Factory Calibration (only for Service)



Factory Calibration for MT78x series, 50 Hz
incl. ZERA calibration report.

Ord.No. **100519758**

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.

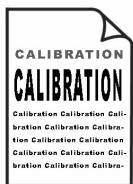


Factory Calibration for MT78x series, 60 Hz
incl. ZERA calibration report.

Ord.No. **100519759**

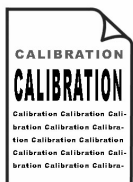
Load points according to ZERA regulations.
Summary of used load points can be downloaded at www.zera.de.

Additional load points are subject to charges.



Factory Calibration for 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**



Factory Calibration for MT3460 / MT3465 50Hz
incl. ZERA calibration report.

Ord.No. **101242304**

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
incl. ZERA calibration report.

Ord.No. **100519701**

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.

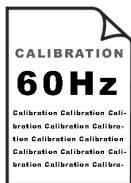


Factory Calibration for MT3460 / MT3465 60Hz
incl. ZERA calibration report.

Ord.No. **101242305**

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.

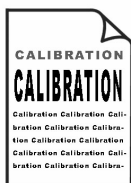


Factory Calibration for MT3416 / MT3417, 60 Hz
incl. ZERA calibration report.

Ord.No. **100519704**

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**

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Notes on using the product catalogue

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