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**ZERA**

**MT36x**  
**Product Catalogue**

Doc.No: 100352704  
Version from: 01.07.2022

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## Device



### MT365 Three Phase Reference Meter CATIII

Inclusive adjustment for one mains frequency.

Ord.No.

101204500

*MT365* is light weight and compact reference meter for on-site verification and calibration of single or three phase meters.

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. *MT3000[Q]* / *MT551*, *MT500* / *MT400*)

*MT365* is designed for testing of max. 1 test specimen.

#### Configuration:

- Direct current measurement up to 300 V / 12 A
- Accuracy for power/energy measurement: <  $\pm 0.05$  %
- 6,4" TFT colour display
- Wide range of accessories (optional)



### MT365 Three Phase Reference Meter CAT IV

Inclusive adjustment for one mains frequency.

Ord.No.

101204600

*MT365* is light weight and compact reference meter for on-site verification and calibration of single or three phase meters.

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. *MT3000[Q]* *MT551* , *MT500* / *MT400*)

*MT365* is designed for testing of max. 1 test specimen.

#### Configuration:

- Direct current measurement up to 300 V / 12 A
- Voltage input designed for protection class **CAT IV**
- Accuracy for power/energy measurement: <  $\pm 0.05$  %
- 6,4" TFT colour display
- Wide range of accessories (optional)



### MT360 Three Phase Reference Meter CATIII

Inclusive adjustment for one mains frequency.

Ord.No. **101204300**

*MT360* is light weight and compact reference meter for on-site verification and calibration of single or three phase meters.

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. *MT3000[Q]* *MT551* , *MT500* / *MT400*)

*MT360* is designed for testing of max. 1 test specimen.

#### Configuration:

- Direct current measurement up to 300 V / 12 A
- Accuracy for power/energy measurement: <  $\pm 0.1$  %
- 6,4" TFT colour display
- Wide range of accessories (optional)



### MT360 Three Phase Reference Meter CAT IV

Inclusive adjustment for one mains frequency.

Ord.No. **101204400**

*MT360* is light weight and compact reference meter for on-site verification and calibration of single or three phase meters.

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. *MT3000[Q]* *MT551* , *MT500* / *MT400*)

*MT360* is designed for testing of max. 1 test specimen.

#### Configuration:

- Direct current measurement up to 300 V / 12 A
- Voltage input designed for protection class **CAT IV**
- Accuracy for power/energy measurement: <  $\pm 0.1$  %
- 6,4" TFT colour display
- Wide range of accessories (optional)

## Factory Calibration for New Instrument



**Factory Calibration for NEW MT3xx series, 50 Hz**  
incl. ZERA calibration report.

Ord.No. **100007055**

*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.



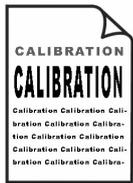
**Factory Calibration for NEW MT3xx series, 60 Hz**  
incl. ZERA calibration report.

Ord.No. **100007056**

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

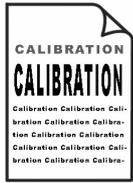
**Load points according to ZERA regulations.**  
Summary of used load points  
can be downloaded at [www.zera.de](http://www.zera.de).

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 MT3xx, 50 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **100006838**

**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.

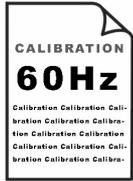


**DAkKS DKD-Calibration for MT3xx incl. current clamp**  
**MT3460, 50 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173919**

**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 MT3xx, 60 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **100006854**

**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.

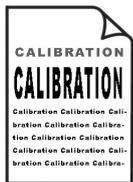


**DAkKS DKD-Calibration for MT3xx incl. current clamp MT3460, 60 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173920**

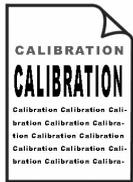
**Load points according to ZERA regulations.**  
Summary of used load points  
can be downloaded at [www.zera.de](http://www.zera.de).

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 "Plug type A to figure-of-eight", 2.0 m**

Ord.No. **100277201**

For supply via mains supply.  

- 1x Plug type A
- 1x Figure-of-eight socket (IEC 60320-1 C7)



**Power cord “Euro plug type C to figure-of-eight”, 2.0 m**

For supply via mains supply.

- 1x Euro plug type C (CEE 7/16)
- 1x Figure-of-eight socket (IEC 60320-1 C7)

Ord.No. **100067700**



**Power cord “Plug type G to figure-of-eight”, 2.0 m**

For supply via mains supply.

- 1x Plug type G (BS1363)
- 1x Figure-of-eight socket (IEC 60320-1 C7)

Ord.No. **100277200**



**Power cord “Plug type I to figure-of-eight”, 2.0 m**

For supply via mains supply.

- 1x Plug type I (AS/NZS 3112, 2-pin)
- 1x Figure-of-eight socket (IEC 60320-1 C7)

Ord.No. **100277202**



**Power cord “stackable safety plug (black) to figure-of-eight”, 2.0 m**

For supply via test voltage.

- 2x stackable, spring-loaded 4 mm plugs with rigid insulating sleeve (2x black)
- 1x Figure-of-eight socket (IEC 60320-1 C7)

Ord.No. **100067608**

## 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**



**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**

## Factory Calibration for NEW Current Clamps



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

Ord.No. **101242308**

*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 MT3416 / MT3417, 50 Hz**  
incl. ZERA calibration report.

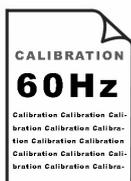
Ord.No. **100519702**

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

Additional load points are subject to charges.



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

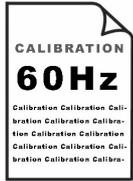
Ord.No. **101242309**

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

Additional load points are subject to charges.



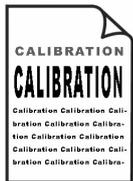
**Factory Calibration for NEW MT3416 / MT3417, 60 Hz**  
incl. ZERA calibration report.

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

Additional load points are subject to charges.

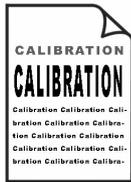


**DAkKS DKD-Calibration for MT3416 / MT3417, 60 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **100519603**

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

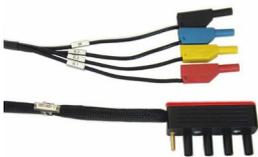


**Quick connection cable “current/rigid sleeve” for**  
**MT series, 12 A, 2.5 m, phase colours: red/yellow/blue**

Ord.No. **100023411**

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



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

Ord.No. **100023402**

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



**Quick connection cable CAT IV for “voltage/rigid sleeve” for MT series, 2 m, phase colours: red/yellow/blue/black**

To prevent connecting faults on the instrument's side. Measurement category IV (CAT IV).

- Instrument's side: 1x 4-pin connector with anti-twist safeguard.
- Mains side: 4x 4 mm Multilam plug with rigid insulating sleeve - 1x red, 1x yellow, 1x blue, 1x black
- Cable cross-section: 2.5 qmm

Ord.No. **100023483**

## 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**



### CAT IV Laboratory cable max. 12 A, 2.0 m

- 2x 4 mm plugs (non-stackable) with rigid insulating sleeve
- Lead cross section: 1 qmm
- Phase colours: Please specify the colour code when ordering

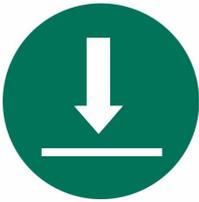
The cables will get a corresponding coloured marking.

**20=black-white, 21=black, 22=red, 23=blue, 24= yellow, 25=green, 26=violet, 27=brown, 28=grey, 29=white**

Ord.No. **1014308xx**

xx please select the colour

## Software



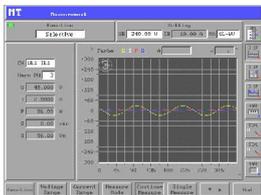
### Software SSM3000 / MTVis

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

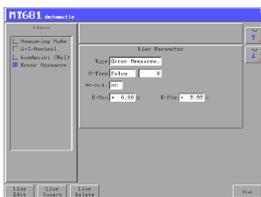
Ord.No. **100090720**



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

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

Ord.No. **100078860**



### Software option "Automatic Measurement" for MT365/MT3000

This software option requires a complete test system, consisting of reference meter and source. Creating and executing of test sequences which enables the system to test meters in a fully automatically mode. An external PC is not required. Test sequences and results will be stored on the USB stick.

Ord.No. **100078700**

## Impulse Sensor (see also Special Accessories)



### TK118, scanning head

For detection of LED signals of electronic meters.

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

Ord.No. **100201900**



### 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.

Ord.No. **101064901**



### 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, 1.6 A / 440 V, 6.3 mm x 32 mm, time-lag	M00460183

Ord.No. **100023714**

### Transport (see also Special Accessories)

**Transport Case for MT3xx, large**

Aluminum case with inlet from rigid foam, designed for

- 1 Instrument
- Accessories

Overall dimensions:

47 cm x 53,5 cm x 18 cm (H x W x D)

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

Ord.No. **100023910**

### 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**



**Protection cover for MT series 3xx/400/500**

To protect the front plate against mechanical collision during transport without transport case.

Ord.No. **100466700**

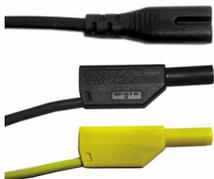
## Documentation



**Complete documentation as pdf files on USB Stick**

Ord.No. **100090716**

## Special Accessories

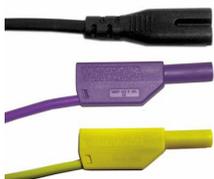


**Power cord “stackable safety plug (black/yellow)  
to figure-of-eight”, 2.0 m**

For supply via test voltage.

- 2x stackable, spring-loaded 4 mm plugs with rigid insulating sleeve (1x black; 1x yellow)
- 1x Figure-of-eight socket (IEC 60320-1 C7)

Ord.No. **100067601**



**Power cord “stackable safety plug  
(violet/yellow) to figure-of-eight”, 2.0 m**

For supply via test voltage.

- 2x stackable, spring-loaded 4 mm plugs with rigid insulating sleeve (1x violet/1x yellow)
- 1x Figure-of-eight socket (IEC 60320-1 C7)

Ord.No. **100067602**

## 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:
  - <  $\pm 0.3\%$  /  $0.7^\circ$  (100 A ... 1200 A)
  - <  $\pm 0.5\%$  /  $1.0^\circ$  (10 A ... 100 A)
  - <  $\pm 1.0\%$  /  $2.0^\circ$  (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:
  - <  $\pm 1.5\%$  /  $1.5^\circ$  (75 A)
  - <  $\pm 0.75\%$  /  $0.75^\circ$  (300 A)
  - <  $\pm 0.5\%$  /  $0.5^\circ$  (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**

**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.	<b>100061321</b>
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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.  $0,5^\circ$  (0,5 A ... 30 A)
  - 300-A-range:  $\leq \pm 1,0\%$  / typ.  $0,5^\circ$  (10 A ... 300 A)
  - 3000-A-range:  $\leq \pm 1,0\%$  / typ.  $0,5^\circ$  (300 A ... 3000 A)
  - 30000-A-range:  $\leq \pm 1,0\%$  / typ.  $0,5^\circ$  (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.	<b>100061322</b>
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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.	<b>100032220</b>
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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**

## Special Accessories (Quick Connection Cable)



**Quick connection cable “current/retractable 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 retractable sleeve to prevent accidental touching. 2x red, 2x yellow, 2x blue.
- Cable cross-section: 2.5 qmm

Ord.No. **100013207**



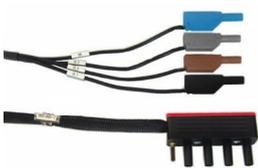
**Quick connection cable “voltage/retractable sleeve” for MT series, 2.5 m, phase colours: red/yellow/blue/black**

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 retractable sleeve to prevent accidental touching - 1x red, 1x yellow, 1x blue, 1x black
- Cable cross-section: 2.5 qmm

Ord.No. **100013307**



**Quick connection cable “voltage/rigid sleeve” for MT3x0 / MT3000, 2.5 m, phase colours: black/brown/grey/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 black, 1x brown, 1x grey, 1x blue
- Cable cross-section: 2.5 qmm

Ord.No. **100023497**



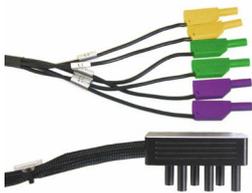
**Quick connection cable “current/rigid sleeve” for MT series, 12 A, 2.5 m, phase colours: black/brown/grey**

**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



**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



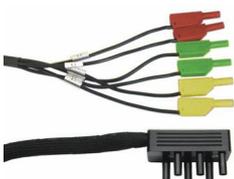
**Quick connection cable for “voltage/rigid sleeve” for MT series, 2.5 m, phase colours: yellow/green/violet/black**

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/red**

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.
- Mains side: 6x stackable, spring-loaded 4 mm plugs with rigid insulating sleeve - 2x yellow, 2x green, 2x red.
- Cable cross-section: 2.5 qmm

Ord.No. 100023481



**Quick connection cable for “voltage/rigid sleeve” for MT series, 2.5 m, phase colours: yellow/green/red/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 red, 1x black
- Cable cross-section: 2.5 qmm

Ord.No. **100023482**



**Quick connection cable CAT IV 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 IV (CAT IV).

- Instrument's side: 1x 4-pin connector with anti-twist safeguard.
- Mains side: 4x 4 mm Multilam plug with rigid insulating sleeve - 1x yellow, 1x green, 1x violet, 1x black
- Cable cross-section: 2.5 qmm

Ord.No. **100023472**



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

To prevent connecting faults on the instrument's side.  
Measurement category IV (CAT IV).

- Instrument's side: 1x 4-pin connector with anti-twist safeguard.
- Mains side: 4x 4 mm Multilam plug with rigid insulating sleeve - 1x black, 1x brown, 1x grey, 1x blue
- Cable cross-section: 2.5 qmm

Ord.No. **100023484**

## 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, 1.6 A / 440 V, 6.3 mm x 32 mm, time-lag

Ord.No. **m00460183**



### Special Accessories (Transport)



#### Carrying strap for reference meter, black, width 25 mm

Belt length: 700 - 1,400 mm, adjustable by sliding buckle, metal snap hooks on both sides.

Ord.No. **100170000**

## 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 ( $\pm 1^\circ$  C)  
Resolution: 0,1° C  
Cable length: 3 m

Ord.No. **100904000**



**Tripod with fixing device for MT360/365 devices**  
For fixing and individual positioning of the instrument.

Ord.No. **100114807**



**Plexiglass protection cover for MT3xx,**  
The cover is made of plexiglass and serves for mechanical protection of the LCD display. To enable the access to the soft-key terminal the cover is equipped with gaps.

Ord.No. **100053201**

## Readjustment (only for Service)



**Adjustment of MT3xx series**

Ord.No. **100033852**

*Note:* Calibration and Calibration report are not included.



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

Ord.No. 101243212

Note: Calibration and Calibration report are not included.



**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 MT3xx series, 50 Hz  
incl. ZERA calibration report.**

Ord.No. 100007038

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 MT3xx series,  
along with current clamp MT3460\*, 50 Hz  
incl. ZERA calibration report.**

Ord.No. 101243210

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.

\*valid also for previous versions



**Factory Calibration for MT3xx series, 60 Hz  
incl. ZERA calibration report.**

Ord.No. 100007054

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.



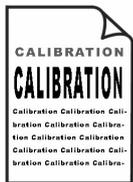
**Factory Calibration for MT3xx series, along with current clamp MT3460\*, 60 Hz** incl. ZERA calibration report.

Ord.No. **101243211**

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

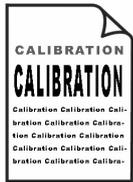
Additional load points are subject to charges.

\*valid also for previous versions



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

Additional load points are subject to charges.



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ZERA GmbH  
Humboldtstrasse 2a  
D-53639 Koenigswinter  
Phone: +49 (0)2244 9277-0  
E-Mail: [zera@zera.de](mailto:zera@zera.de)  
Internet: [www.zera.de](http://www.zera.de)  
Managing Director: Horst Wächter  
Headquarter: Königswinter

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Commerzbank Bonn  
IBAN: DE29 3804 0007 0113 3131 00  
SWIFT (BIC): COBADEFF380

Kreissparkasse Köln  
IBAN: DE15 3705 0299 0001 0784 92  
SWIFT (BIC): COKSDE33

HRB 7073 Siegburg  
VAT-IdNo. DE 218 515 479  
WEEE-Reg.Nr. DE 53879641

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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)