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**ZERA**

# MT30

## Product Catalogue

Doc.No: 100352703  
Version from: 01.07.2024

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## Device



### STANDARD SET

#### MT30 Three-Phase Reference Meter CAT III

Inclusive adjustment and factory calibration for one mains frequency.

Ord.No. **1016656xx**

Calibration	Ord.No.
Factory 50 Hz	xx → 00
Factory 60 Hz	xx → 01
DAkKS 50 Hz	xx → 02
DAkKS 60 Hz	xx → 03

The MT30 is a light weight and compact Reference Meter for on-site verification and calibration of single- or three-phase domestic meters.

Test voltage can be measured by the Reference Meter directly from the mains. Test current must be measured via current clamps.

The MT30 is designed for testing of one test specimen.

- Accuracy class: 0.2  
by using of MT3460 current clamp type
- Measurement direct: max. 300 V
- Measurement via clamps: max. 120 A
- Power supply via external unit
- Rechargeable battery operation  
(battery warranty 6 months)
- Selective power measurement

### Each inclusive the following accessories:

Qty	Description	Order No.
1	MT3460, AC current clamp set incl. calibration	1016683xx
1	AC power supply for MT30	100307130
1	Power cord "Euro plug type C to figure-of-eight", 2.0 m	100067700
1	Power cord "stackable safety plug (black) to figure-of-eight" 2.0 m	100067608
1	Li-Ion battery, set of 3	100619500
1	Laboratory cable with stackable plug, 2.0 m black	X00006910
1	Laboratory cable with stackable plug, 2.0 m red	X00007597
1	Laboratory cable with stackable plug, 2.0 m yellow	X00006907
1	Laboratory cable with stackable plug, 2.0 m blue	X00007598
1	Accessories bag with connection adapters	100023723
1	Holding device for scanning head	100319600
1	Connection cable for scanning head input (SC)	Z10353027
1	TK326, scanning head	101064901

1	Interface cable, RS232	X00010844
1	Carrying strap for reference meter, black, width 25 mm	100170000
1	Transport case for MT30, Standard	100023981
1	Complete documentation as pdf files on USB flash drive	100090716

**MT30 Three-Phase Reference Meter CAT III**

Inclusive MT3460, adjustment and factory calibration for one mains frequency.

Ord.No.	<b>1016657xx</b>
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Calibration	Ord.No.
Factory 50 Hz	xx → 00
Factory 60 Hz	xx → 01
DAkS 50 Hz	xx → 02
DAkS 60 Hz	xx → 03

The MT30 is a light weight and compact Reference Meter for on-site verification and calibration of single- or three-phase domestic meters.

The MT30 is designed for testing of one test specimen.

Configuration:

- Direct voltage measurement up to 300 V / -- A \*
- Accuracy for power/energy measurement: < ±0.2 % by using of MT3460 current clamp type
- Power supply via external unit
- Rechargeable battery operation (optional)

\* Current measurements only via current clamps

**MT30 Three-Phase Reference Meter CAT IV**

Inclusive MT3460, adjustment and factory calibration for one mains frequency.

Ord.No.	<b>1016671xx</b>
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Calibration	Ord.No.
Factory 50 Hz	xx → 00
Factory 60 Hz	xx → 01
DAkS 50 Hz	xx → 02
DAkS 60 Hz	xx → 03

The MT30 is a light weight and compact Reference Meter for on-site verification and calibration of single- or three-phase domestic meters.

The MT30 is designed for testing of one test specimen.

Configuration:

- Direct voltage measurement up to 300 V / -- A \*
- Accuracy for power/energy measurement: < ±0.2 % by using of MT3460 current clamp type

- Power supply via external unit
  - Rechargeable battery operation (optional)
- \* Current measurements only via current clamps

## Power Cords



### AC Power Supply for MT10/30

to operate and recharge internal batteries.  
 Input voltage 90...264 VAC  
 Output voltage 16 VDC  
 AC power cord for mains has to be ordered separately.

Ord.No. **100307130**



### AC Power Supply for MT10/30 with fuse

to operate and recharge internal batteries.  
 Input voltage 90...264 VAC  
 Output voltage 16 VDC  
 In case of overvoltage connection power supply will be protected by internal security circuit and fuse.  
 Fuse rating: 1,6 A / 440 V  
 AC power cord for mains and spare fuses has to be ordered separately.

Ord.No. **101097300**



### Power cord "Plug type A to figure-of-eight", 2.0 m

For supply via mains supply.

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

Ord.No. **100277201**



### 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

Battery Pack and Accessories



**Li-Ion Battery, set of 3** (M00400491)

- 3,7 V/2200 mAh

Ord.No.

100619500

**Please remark that Li-Ion batteries are classified as “Dangerous Good for Shipment”. Sending Li-Ion batteries as spare part by air requires a lot of strict security procedures. Therefore, ZERA can only offer this spare part batteries as EXW (Incoterms). The purchaser will be responsible for the transportation.**  
**Warranty: 6 months**

Current Clamps (see also Special Accessories)



**MT3460, AC current clamp set 120 A**  
The CT set is electronically compensated. Calibration independent from the measuring standard inclusive adjustment and factory calibration for one mains frequency.

Ord.No.

1016683xx

Calibration	Ord.No.
Factory 50 Hz	xx → 00
Factory 60 Hz	xx → 01
DAkKS 50 Hz	xx → 02
DAkKS 60 Hz	xx → 03

**DAkKS calibrations are only performed together with the corresponding measuring standard.**

- Clamping diameter: 16 mm
- Output: D-Sub plug 25-pin
- Measuring range: 5 mA ... 120 A
- Error of measurement:

- < ±0.15% @ 500 mA ... 120 A
- < ±0.3% @ 100 mA ... < 500 mA
- Frequency range: 45 ... 65 Hz
- Overvoltage Category: CAT III 600 V / CAT IV 300 V



**MT3416, AC current clamp set 300 A**  
The CT set is electronically compensated. Calibration independent from the measuring standard inclusive adjustment and factory calibration for one mains frequency.

Ord.No.

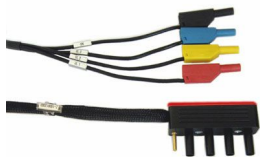
1016692xx

Calibration	Ord.No.
Factory 50 Hz	xx → 00
Factory 60 Hz	xx → 01
DAkKS 50 Hz	xx → 02
DAkKS 60 Hz	xx → 03

**DAkKS calibrations are only performed together with the corresponding measuring standard.**

- Clamping diameter: 52 mm
- Output: D-Sub plug 25-pin
- Measuring range: 100 mA ... 300 A
- Error of measurement:
  - < ±0,15 % / < 0,1° (1 A ... 300 A)
  - < ±0,3 % / < 0,1° (500 mA ... 1 A)
  - < ±0,6 % / < 0,15° (200 mA ... 500 mA)
- Frequency range: 45 ... 65 Hz
- Overvoltage Category: CAT III 600 V / CAT IV 300 V

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).

Ord.No.

100023402

- 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).

Ord.No.

100023483

- 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

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

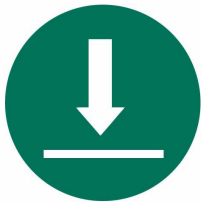
The cables will get a corresponding coloured marking.

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



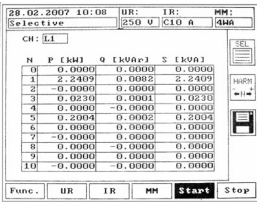
Software SSM3000 / MTVis

The software runs under Windows 7 or 10.

- SSM3000: For external control via PC.
- MTVis: To readout and display saved data.

Ord.No. 100090720

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



Software option for selective power measurement, MT10 / MT30

3 additional measuring modes for only fundamental power in 4W active, 4W reactive and 4W apparent are available

Ord.No. 100078811

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, 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 RJ10 socket input (SC)**

The spiral cable for connecting of TKxxx or K121 to the ZERA 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 pulse entry when testing electricity meters.

Ord.No.

**101091620****Connectors (see also Special Accessories)****Accessories bag with connection adapters**

- 1x Accessories bag (100214400)
- 3x Spring clip (100606750)
- 4x 4 mm plug adapter (banana plug) (X00004962)
- 4x Adapter for terminal blocks (101584400)
- 3x 4 mm test clips (crocodile clips), slim (X00009329)
- 3x 4 mm test clips (crocodile clips), wide (X00010059)

Ord.No.

**100023723****Transport (see also Special Accessories)****Transport Case for MT10 / MT30, 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.

**100023990**

**Transport Case for MT10 / MT30, Standard**

Aluminum case with inlet from rigid foam, designed for

- 1 Instrument
- Accessories

Overall dimensions:

36 cm x 45 cm x 17 cm (H x W x D)

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

Ord.No.

**100023981****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****Documentation****Complete Documentation**

as pdf files on USB flash drive

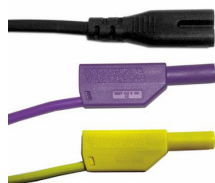
Ord.No.

**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)**

**MT3470, flexible AC current probes 3000 A, 0.45 m**

Flexible clamping adapter for enclosing conductors of any shape and in areas 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 adapter for enclosing conductors of any shape and in areas 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****MT3472, flexible AC current probes 30000 A, 1.2 m**

Flexible clamping adapter for enclosing conductors of any shape and in areas 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.

**100061322**



**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**



**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 “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 for “voltage/rigid sleeve” for MT series, 4.0 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. **100013306**



**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



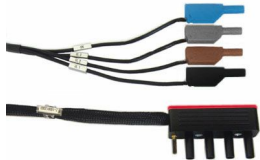
**Quick connection cable for “voltage/rigid sleeve” for MT series, 2.5 m, phase colours: yellow/green/red/black**

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 “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 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.

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)****Fuse, 1.6 A / 440 V, 6.3 mm x 32 mm, time-lag**

Ord.No.

**m00460183****Connecting terminals for current**

- Isolating 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.

**101584400****4 mm plug adapter (banana plug)**

- Plug: 4 mm spring-loaded plug, made of brass.
- Socket: 4 mm rigid socket in insulator accepting spring-loaded 4 mm plugs with rigid insulating sleeve.

Ord.No.

**X00004962****4 mm cable lug adapters**

- Cable lug adapter, made of brass for permanent installation, e. g. for connecting screw terminals.
- Socket: 4 mm rigid socket in insulator accepting spring-loaded 4 mm plugs with rigid insulating sleeve.

Ord.No.

**X00004963**



**Spring clip**

- Connection via spring clip.
- Socket: spring-loaded 4 mm plugs with rigid insulating sleeve.

Ord.No. **100606750****Test plugs for terminal blocks**

- Plug: 4 mm test plug, made of brass with spring-loaded plug for connecting into rail mounted terminals with 4 mm sockets.
- Socket: 4 mm rigid socket in insulator accepting spring-loaded 4 mm plugs with rigid insulating sleeve.

Ord.No. **100102400****4 mm test clips (crocodile clips), wide**

- Crocodile clip made of brass with all-round insulation. Toothed jaws for wide grip with surface for fine wire.
- Socket: 4 mm rigid socket in insulator accepting spring-loaded 4 mm plugs with rigid insulating sleeve.

Ord.No. **X00010059****4 mm test clips (crocodile clips), slim**

- Small, slim crocodile clip made of brass with all-round insulation. Toothed jaws for wide grip with surface for fine wire.
- 4 mm rigid socket in insulator accepting spring-loaded 4 mm plugs with rigid insulating sleeve.

Ord.No. **X00009329****Accessories bag without content**

DIN A6, material: polypropylene

Ord.No. **100214400**

## 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**



**MT3450, Temperature sensor**  
Sensor for measuring of the ambient temperature on site. The measured temperature value is displayed and saved in the MT device.  
Temperature range: -20° C ... +60° C ( $\pm 1^\circ$  C)  
Resolution: 0,1° C  
Cable length: 3 m

Ord.No. **100904000**

## Readjustment (for Service)

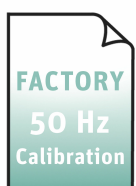


### Adjustment of MT30

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

Ord.No. **100033858**

## Calibration (for Service)



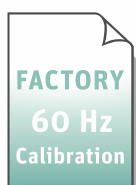
### Factory Calibration for MT30, 50 Hz

incl. ZERA calibration report.

Ord.No. **100007049**

**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.



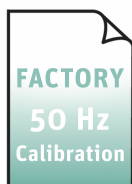
### Factory Calibration for MT30, 60 Hz

incl. ZERA calibration report.

Ord.No. **100519719**

**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.

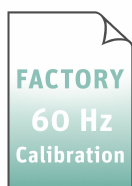


**Factory Calibration for MT30**  
**incl. current clamp MT3460, 50 Hz**  
incl. ZERA calibration report.

Ord.No. **100890851**

**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.

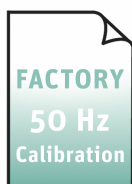


**Factory Calibration for MT30**  
**incl. current clamp MT3460, 60 Hz**  
incl. ZERA calibration report.

Ord.No. **100890852**

**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.

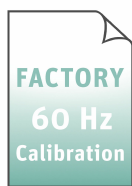


**Factory Calibration for MT3460 / MT3465 50Hz**  
incl. ZERA calibration report.

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.

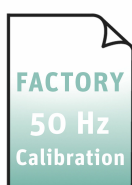


**Factory Calibration for MT3460 / MT3465 60Hz**  
incl. ZERA calibration report.

Ord.No. **101242305**

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

Additional load points are subject to charges.

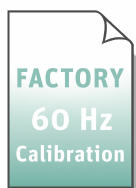


**Factory Calibration for MT3416 / MT3417, 50 Hz**  
incl. ZERA calibration report.

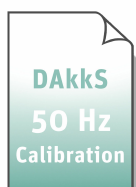
Ord.No. **100519701**

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

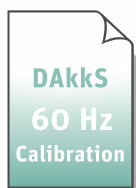
Additional load points are subject to charges.

**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](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****Factory Calibration  
for current clamps, each additional  
load point for for power and energy**Ord.No. **100007092****DAkkS DKD-Calibration for MT30, 50 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025Ord.No. **100006849****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.

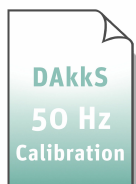


**DAkkS DKD-Calibration for MT30, 60 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **100519619**

**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.

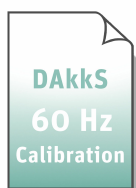


**DAkkS DKD-Calibration for MT30**  
**incl. current clamp MT3460, 50 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173917**

**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.

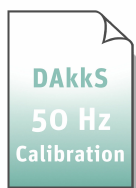


**DAkkS DKD-Calibration for MT30**  
**incl. current clamp MT3460, 60 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173918**

**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.

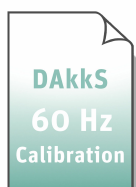


**DAkkS DKD-Calibration for MT3460 / MT3465, 50 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

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.

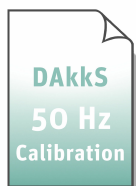


**DAkkS DKD-Calibration for MT3460 / MT3465, 60 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

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.

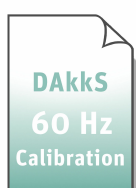
**DAkKS DKD-Calibration for MT3416 / MT3417, 50 Hz**

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

Ord.No.

**100006892**

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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)