



ZERA

MT30
Product Catalogue

Doc.No: 100352703
Version from: 01.07.2022

Device



MT30 Three Phase Reference Meter CATIII

Inclusive adjustment for one mains frequency.

Ord.No.

101073102

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

Test voltage for the Compact Reference Meter will be measured at the mains on site. Test current must be measured via current clamps (option).

MT30 is designed for testing of max. 1 test specimen.

Configuration:

- Direct current 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 CATIV

Inclusive adjustment for one mains frequency.

Ord.No.

101073202

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

Test voltage for the Compact Reference Meter will be measured at the mains on site. Test current must be measured via current clamps (option).

MT30 is designed for testing of max. 1 test specimen.

Configuration:

- Direct current measurement up to 300 V / -- A *
- Voltage input designed for protection class **CATIV**
- 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

Factory Calibration for New Instrument



Factory Calibration for NEW MT30, 50 Hz
incl. ZERA calibration report.

Ord.No. **100519718**

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.



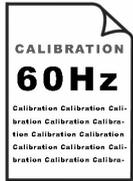
Factory Calibration for NEW MT30
incl. current clamp MT3460, 50 Hz
incl. ZERA calibration report.

Ord.No. **100890847**

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 MT30, 60 Hz
incl. ZERA calibration report.

Ord.No. **100519720**

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.



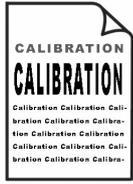
Factory Calibration for NEW MT30
incl. current clamp MT3460, 60 Hz
incl. ZERA calibration report.

Ord.No. **100890848**

This article applies only for a purchase of new device.

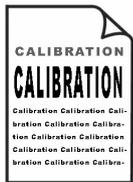
Load points according to ZERA regulations.
Summary of used load points
can be downloaded at www.zera.de.

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

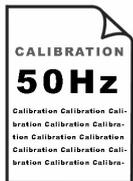


DAkks DKD-Calibration for MT30, 50 Hz
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **100006849**

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 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.

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.

Additional load points are subject to charges.

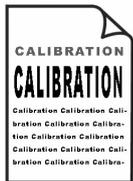


DAkKS DKD-Calibration for MT30 incl. current clamp MT3460, 60 Hz
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173918**

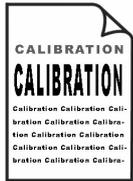
Load points according to ZERA regulations.
Summary of used load points can be downloaded at www.zera.de.

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



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**

Fuse, 1.6 A / 440 V, 6.3 mm x 32 mm, time-lagOrd.No. **m00460183****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 mOrd.No. **100067700**

For supply via mains supply.

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

Power cord "Plug type G to figure-of-eight", 2.0 mOrd.No. **100277200**

For supply via mains supply.

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

Power cord "Plug type I to figure-of-eight", 2.0 mOrd.No. **100277202**

For supply via mains supply.

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



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.

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**

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 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**

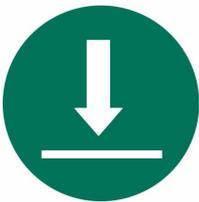


CAT IV Laboratory cable max. 12 A, 2.0 m
 • 2x 4 mm plugs (non-stackable) with rigid insulating sleeve
 • Lead cross section: 1 qmm
 • Phase colours: Please specify the colour code when ordering
 The cables will get a corresponding coloured marking.
20=black-white, 21=black, 22=red, 23=blue, 24= yellow, 25=green, 26=violet, 27=brown, 28=grey, 29=white

Ord.No. **1014308xx**

xx please select the colour

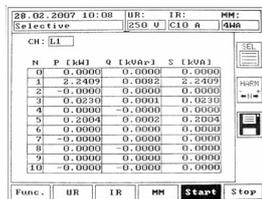
Software



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

Ord.No. **100090720**

The software can be downloaded at 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**



TK326-1, 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

- 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

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

Ord.No. **X00010844**

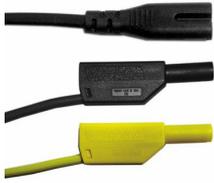
Documentation



Complete documentation as pdf files on USB Stick

Ord.No. **100090716**

Special Accessories



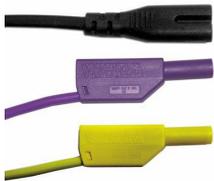
Power cord “stackable safety plug (black/yellow) to figure-of-eight”, 2.0 m

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 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.	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. $0,5^\circ$ (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
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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**

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 “voltage/Entrelec” for MT series, 2.5 m

To connect the instrument to metering installations with Entrelec connector system. Pin assignment upon agreement. Measurement category III (CAT III).

- Instrument's side: 1x 4-pin connector
- Mains side: 1x multipoint Entrelec plug, 2x in-line 4 mm rigid sockets, accepting spring-loaded 4 mm plugs with rigid insulating sleeve - black.
- Cable cross section: 2.5 qmm

Ord.No. 100013320



Quick connection cable “voltage/rigid sleeve” for MT series, burden measurement, 4.0 m, phase colours: red/yellow/blue/black

For burden measurement. On each phase there is a separate connector for neutral. Measurement category III (CAT III).

- Instrument's side: 1x 4-pin connector
- Mains side: 6x stackable, spring-loaded 4 mm plug with rigid insulating sleeve, colours: 1x red, 1x yellow, 1x blue, 3x black
- Cable cross-section: 2.5 qmm

Ord.No. 100013308



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 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**

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 (± 1° C)
Resolution: 0,1° C
Cable length: 3 m

Ord.No. **100904000**

Readjustment (only for Service)



Adjustment of MT30

Ord.No. **100033858**

Note: Calibration and Calibration report are not included.

Factory Calibration (only 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.

Additional load points are subject to charges.

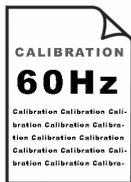


**Factory Calibration for MT30 incl. current clamp
MT3460, 50 Hz**
incl. ZERA calibration report.

Ord.No. **100890851**

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

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.

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.

Additional load points are subject to charges.

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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