



**ZERA**

# MT3x0s2

## Product Catalogue

Doc.No: 100352770  
Version from: 01.01.2024

## Device



### STANDARD SET

#### MT310s2 Three-phase Reference Meter CAT IV

Inclusive adjustment for one mains frequency and one Battery Pack BM4100.

Ord.No. **1016693xx**

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

MT310s2 is a light weight and compact Reference Meter for on-site verification and calibration of single or three-phase meters. Test voltage and test current can be measured by the Reference Meter from the mains or generated and measured via an external source (optional, e.g. MT400 or MT5xx).

MT310s2 is designed for testing of one test specimen.

#### Configuration:

- Direct current measurement up to 300 V / 12 A
- CT current measurement up to 120 A
- Overvoltage category **CAT IV**
- Accuracy for power/energy measurement:  $< \pm 0.1 \%$
- Burden measurement for instrument transformer installations
- Additional 4th voltage and current input channel

#### Inclusive the following accessories:

- CCB120, AC current clamp 120 A  
1x L1, 1x L2, 1x L3
- Calibration for one mains frequency
- Power cord "Euro plug type C to figure-of-eight", 2.0 m
- CAT IV quick connection cable  
for "voltage/rigid sleeve" for MT s2-series, 2.0 m,  
Phase colours: red/yellow/blue/black/black-white
- CAT IV quick connection cable  
for "current/rigid sleeve" for MT s2-series, 2.5 m,  
Phase colours: red/yellow/blue
- Accessories bag with connection adapters
- TK326, scanning head with holding device  
and connection cable for scanning head input (SC)
- USB flash drive, 16 GB  
(save customer data and measuring values)
- Transport case for MT3x0s2, Standard
- Complete documentations as pdf files  
on USB flash drive

**STANDARD SET****MT320s2 Three-phase Reference Meter CAT IV**

Inclusive adjustment for one mains frequency and one Battery Pack BM4100.

Ord.No.	1016699xx
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Calibration	Ord.No.
Factory 50 Hz	xx → 00
Factory 60 Hz	xx → 01
DAkKS 50 Hz	xx → 02
DAkKS 60 Hz	xx → 03

MT320s2 is a light weight and compact Reference Meter for on-site verification and calibration of single or three-phase meters. Test voltage and test current can be measured by the Reference Meter from the mains or generated and measured via an external source (optional, e.g. MT400 or MT5xx).

MT320s2 is designed for testing of one test specimen.

Configuration:

- Direct current measurement up to 300 V / 12 A
- CT current measurement up to 120 A
- Overvoltage category **CAT IV**
- Accuracy for power/energy measurement: < ±0.05 %
- Burden measurement for instrument transformer installations
- Additional 4th voltage and current input channel

Inclusive the following accessories:

- CCB120, AC current clamp 120 A  
1x L1, 1x L2, 1x L3
- Calibration for one mains frequency
- Power cord "Euro plug type C to figure-of-eight", 2.0 m
- CAT IV quick connection cable  
for "voltage/rigid sleeve" for MT s2-series, 2.0 m,  
Phase colours: red/yellow/blue/black/black-white
- CAT IV quick connection cable  
for "current/rigid sleeve" for MT s2-series, 2.5 m,  
Phase colours: red/yellow/blue
- Accessories bag with connection adapters
- TK326, scanning head with holding device  
and connection cable for scanning head input (SC)
- USB flash drive, 16 GB  
(save customer data and measuring values)
- Transport case for MT3x0s2, Standard
- Complete documentations as pdf files  
on USB flash drive

**MT310s2 Three-phase Reference Meter CAT IV**

Inclusive adjustment for one mains frequency and one Battery Pack BM4100.

Ord.No.	<b>1016694xx</b>
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Calibration	Ord.No.
Factory 50 Hz	xx → 00
Factory 60 Hz	xx → 01
DAkKS 50 Hz	xx → 02
DAkKS 60 Hz	xx → 03

MT310s2 is a light weight and compact Reference Meter for on-site verification and calibration of single or three-phase meters.

MT310s2 is designed for testing of one test specimen.

Configuration:

- Direct current measurement up to 300 V / 12 A
- Overvoltage category **CAT IV**
- Accuracy for power/energy measurement:  $< \pm 0.1 \%$
- Burden measurement for instrument transformer installations
- Additional 4<sup>th</sup> voltage and current input channel

**MT320s2 Three-phase Reference Meter CAT IV**

Inclusive adjustment for one mains frequency and one Battery Pack BM4100.

Ord.No.	<b>1016700xx</b>
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Calibration	Ord.No.
Factory 50 Hz	xx → 00
Factory 60 Hz	xx → 01
DAkKS 50 Hz	xx → 02
DAkKS 60 Hz	xx → 03

MT320s2 is a light weight and compact Reference Meter for on-site verification and calibration of single or three-phase meters.

MT320s2 is designed for testing of one test specimen.

Configuration:

- Direct current measurement up to 300 V / 12 A
- Overvoltage category **CAT IV**
- Accuracy for power/energy measurement:  $< \pm 0.05 \%$
- Burden measurement for instrument transformer installations
- Additional 4<sup>th</sup> voltage and current input channel

## Power Cords



### 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

## Battery Pack and Accessories



### Battery Pack BM4100

Rechargeable Battery Pack with Li-ION Battery for operation of MT3x0s2 independent from the mains.  
14,4 V / 6,6 Ah / 95,04 Wh

Ord.No.

101378200



**AC Power supply for Battery Pack BM4100**

AC Power supply for charging BM4100 battery pack

Input: AC 90 – 264 V / 47 – 63 Hz

The following mains adapters are included:

Plug type C (EU) – Plug type G (UK)

Plug type A (US) – Plug type I (AUS)

Output: DC 24 V, 1,67 A (max. 40 W)

Ord.No. 101644310



**DC/DC-Converter for Battery Pack BM4100**

Converter for recharging battery pack BM4100 via cigarette lighter plug from cars.

Input: DC 12 -16 V

Output: DC 24 V, max. 6 A

Ord.No. 101486001



**Extension for DC cable**

for connection with the battery module BM4100 of the MT310s2 Reference Meter

Ord.No. 101488900

## Current Clamps (see also Special Accessories)



### CCB120, AC current clamp 120 A, L1

The CT is electronically compensated. Calibration independent from the instrument inclusive adjustment and factory calibration for one mains frequency.

Ord.No. **1016695xx**

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: Plug with Push-Pull locking
- 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



### CCB120, AC current clamp 120 A, L2

The CT is electronically compensated. Calibration independent from the instrument inclusive adjustment and factory calibration for one mains frequency.

Ord.No. **1016696xx**

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: Plug with Push-Pull locking
- 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

**CCB120, AC current clamp 120 A, L3**

The CT is electronically compensated. Calibration independent from the instrument inclusive adjustment and factory calibration for one mains frequency.

Ord.No.	<b>1016697xx</b>
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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: Plug with Push-Pull locking
- 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

**CCB120, AC current clamp 120 A, AUX**

The CT is electronically compensated. Calibration independent from the instrument inclusive adjustment and factory calibration for one mains frequency.

Ord.No.	<b>1016698xx</b>
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Calibration	Ord.No.
Factory 50 Hz	xx → 00
Factory 60 Hz	xx → 01

- Clamping diameter: 16 mm
- Output: Plug with Push-Pull locking
- 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



**CCB300, AC current clamp 300 A, L1**

The CT is electronically compensated. Calibration independent from the instrument inclusive adjustment and factory calibration for one mains frequency.

Ord.No.	<b>1016714xx</b>
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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: Plug with Push-Pull locking
- Measuring range: 100 mA ... 300 A
- Error of measurement:
  - < ±0.15% @ 1 A ... 300 A
  - < ±0.3% @ 500 mA ... < 1 A
  - < ±0.6% @ 200 mA ... < 500 mA
- Frequency range: 45 ... 65 Hz
- Overvoltage Category: CAT III 600 V / CAT IV 300 V

**CCB300, AC current clamp 300 A, L2**

The CT is electronically compensated. Calibration independent from the instrument inclusive adjustment and factory calibration for one mains frequency.

Ord.No.	<b>1016715xx</b>
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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: Plug with Push-Pull locking
- Measuring range: 100 mA ... 300 A
- Error of measurement:
  - < ±0.15% @ 1 A ... 300 A
  - < ±0.3% @ 500 mA ... < 1 A
  - < ±0.6% @ 200 mA ... < 500 mA
- Frequency range: 45 ... 65 Hz
- Overvoltage Category: CAT III 600 V / CAT IV 300 V

**CCB300, AC current clamp 300 A, L3**

The CT is electronically compensated. Calibration independent from the instrument inclusive adjustment and factory calibration for one mains frequency.

Ord.No.	<b>1016716xx</b>
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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: Plug with Push-Pull locking
- Measuring range: 100 mA ... 300 A
- Error of measurement:
  - < ±0.15% @ 1 A ... 300 A
  - < ±0.3% @ 500 mA ... < 1 A
  - < ±0.6% @ 200 mA ... < 500 mA
- Frequency range: 45 ... 65 Hz
- Overvoltage Category: CAT III 600 V / CAT IV 300 V

**CCB1000, AC current clamp 1000 A, L1**

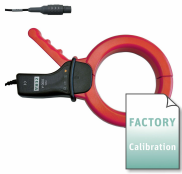
The CT is electronically compensated. Calibration independent from the instrument inclusive adjustment and factory calibration for one mains frequency.

Ord.No.	<b>1016717xx</b>
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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: 115 mm
- Output: Plug with Push-Pull locking
- Measuring range: 100 mA ... 1000 A
- Error of measurement:
  - < ±0.15% @ 3 A ... 1000 A
  - < ±0.3% @ 1 A ... < 3 A
  - < ±0.6% @ 200 mA ... < 1 A
- Frequency range: 45 ... 65 Hz
- Overvoltage Category: CAT III 600 V / CAT IV 300 V

**CCB1000, AC current clamp 1000 A, L2**

The CT is electronically compensated. Calibration independent from the instrument inclusive adjustment and factory calibration for one mains frequency.

Ord.No.	<b>1016718xx</b>
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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: 115 mm
- Output: Plug with Push-Pull locking
- Measuring range: 100 mA ... 1000 A
- Error of measurement:
  - < ±0.15% @ 3 A ... 1000 A
  - < ±0.3% @ 1 A ... < 3 A
  - < ±0.6% @ 200 mA ... < 1 A
- Frequency range: 45 ... 65 Hz
- Overvoltage Category: CAT III 600 V / CAT IV 300 V

**CCB1000, AC current clamp 1000 A, L3**

The CT is electronically compensated. Calibration independent from the instrument inclusive adjustment and factory calibration for one mains frequency.

Ord.No.	<b>1016719xx</b>
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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: 115 mm
- Output: Plug with Push-Pull locking
- Measuring range: 100 mA ... 1000 A
- Error of measurement:
  - < ±0.15% @ 3 A ... 1000 A
  - < ±0.3% @ 1 A ... < 3 A
  - < ±0.6% @ 200 mA ... < 1 A
- Frequency range: 45 ... 65 Hz
- Overvoltage Category: CAT III 600 V / CAT IV 300 V

## Quick Connection Cable (see also Special Accessories)



### CAT IV Quick connection cable "current/rigid sleeve" max. 12 A for MT s2-series, 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 4 mm plug (non-stackable) with rigid insulating sleeve.
- Cable cross-section: 2.5 qmm

Ord.No. 101318700



### CAT IV Quick connection cable for "voltage/rigid sleeve" for MT s2-series, 2 m

Phase colours: red/yellow/blue/black/black-white

To prevent connecting faults on the instrument's side

- Instrument's side: 1x 5-pin connector with anti-twist safeguard.
- Mains side: 5x 4 mm plug (non-stackable) with rigid insulating sleeve
- Cable cross-section: 2.5 qmm

Ord.No. 101312800

## Current and Voltage Cables (see also Special Accessories)



### 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

## 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.	<b>101064901</b>
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**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.	<b>100319600</b>
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**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.	<b>100004210</b>
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**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.	<b>Z10353027</b>
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**ZZ8636 Start-stop pushbutton for signal entry**

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

Ord.No.	<b>101091620</b>
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## Connectors (see also Special Accessories)



### Accessories bag with connection adapters

01 Accessories bag	100214400
03 Spring clip	100606750
05 4-mm plug adapter (banana plug)	X00004962
10 Adapter for terminal blocks	101584400
10 Connecting terminals for current	X00011923
04 4-mm test clips	X00009329
(crocodile clips), slim	
04 4-mm test clips	X00010059
(crocodile clips), wide	
10 Fuse, 2,5 A / 500 V	M00460199
6.3 mm x 32 mm, time-lag	

Ord.No.	100023744
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## Transport (see also Special Accessories)



### Transport Case for MT3x0s2, Standard

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.	100023911
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### Transport Case for MT3x0s2, Standard

PVC case with inlet from rigid foam, designed for

- 1 Instrument
- Accessories

Overall dimensions:

41,5 cm x 51,5 cm x 20 cm (H x W x D)

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

Ord.No.	100023909
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### Transport Case for MT3x0s2, large

PVC case with inlet from rigid foam, designed for

- 1 Instrument
- Accessories

Overall dimensions:

40 cm x 60 cm x 22,5 cm (H x W x D)

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

Ord.No.	100023912
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## Standard Accessories (see also Special Accessories)



### USB Flash Drive, 16GB

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

Ord.No. **101198360**

## Documentation



### Complete Documentation as pdf files on USB flash drive

Ord.No. **100090716**

## Special Accessories (Current Clamps and Probes)



### RC3000, flexible AC current probes 3000 A (L1), 0.45 m

For flexible enclosure of any conductor to be measured (cable, bar, core, etc.) even on places difficult to access.

- Diameter: appr. 13 cm
- Output: Plug with Push-Pull locking for direct connection to the s2 device series
- Measuring range: 5 A ... 3000 A
- Ranges: 30 A, 300 A, 3000 A
- Error of measurement with optimal range selection:
  - <  $\pm 2,0\%$  / <  $1^\circ$  (5 A ... 50 A)
  - <  $\pm 1,5\%$  / <  $1^\circ$  (>50 A ... 300 A)
  - <  $\pm 1,0\%$  / <  $1^\circ$  (> 300 A ... 3000 A)
- Frequency range: 30 Hz ... 440 Hz

Ord.No. **101634300**



### RC3000, flexible AC current probes 3000 A (L2), 0.45 m

For flexible enclosure of any conductor to be measured (cable, bar, core, etc.) even on places difficult to access.

- Diameter: appr. 13 cm
- Output: Plug with Push-Pull locking for direct connection to the s2 device series
- Measuring range: 5 A ... 3000 A
- Ranges: 30 A, 300 A, 3000 A
- Error of measurement with optimal range selection:
  - <  $\pm 2,0\%$  / <  $1^\circ$  (5 A ... 50 A)
  - <  $\pm 1,5\%$  / <  $1^\circ$  (>50 A ... 300 A)
  - <  $\pm 1,0\%$  / <  $1^\circ$  (> 300 A ... 3000 A)
- Frequency range: 30 Hz ... 440 Hz

Ord.No. **101634400**

**RC3000, flexible AC current probes 3000 A (L3), 0.45 m**

For flexible enclosure of any conductor to be measured (cable, bar, core, etc.) even on places difficult to access.

- Diameter: appr. 13 cm
- Output: Plug with Push-Pull locking for direct connection to the s2 device series
- Measuring range: 5 A ... 3000 A
- Ranges: 30 A, 300 A, 3000 A
- Error of measurement with optimal range selection:
  - <  $\pm 2,0\%$  / <  $1^\circ$  (5 A ... 50 A)
  - <  $\pm 1,5\%$  / <  $1^\circ$  (>50 A ... 300 A)
  - <  $\pm 1,0\%$  / <  $1^\circ$  (> 300 A ... 3000 A)
- Frequency range: 30 Hz ... 440 Hz

Ord.No.

**101634500****Special Accessories (Quick Connection Cable)****CAT IV Quick connection cable for "current/rigid sleeve" for**

**MT3x0s2 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.
- Cable cross-section: 2.5 qmm

Ord.No.

**101318701****CAT IV Quick connection cable for**

**"voltage/rigid sleeve" for MT3x0s2 series, 2.5 m**

**Phase colours: yellow/green/violet/black-white**

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
- Cable cross-section: 2.5 qmm

Ord.No.

**101312801****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. **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****Fuse, 2.5 A / 550 V, 6.3 mm x 32 mm, time-lag**Ord.No. **M00460199****Test probe, black**

- Ø 4 mm test probe with spring-loaded Multilam.
- Handle guard chamfered on both sides.
- Ø 4 mm rigid socket in handle accepting spring-loaded
- Ø 4 mm plugs with rigid insulating sleeve.

Ord.No. **101412200**



**Test probe, blue**

Ø 4 mm test probe with spring-loaded Multilam.  
Handle guard chamfered on both sides.  
Ø 4 mm rigid socket in handle accepting spring-loaded  
Ø 4 mm plugs with rigid insulating sleeve.

Ord.No. **101412201**

**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**



**Tripod with fixing device for MT3x0s2 devices**

For fixing and individual positioning of the instrument.

Ord.No. **100114810**

**Readjustment (for Service)**



**Adjustment of MT3x0s2 series**

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

Ord.No. **101049022**

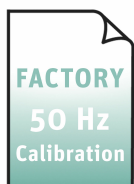


**Adjustment of current clamp  
CCx120 / CCx300 / CCx1000**

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

Ord.No. **101049023**

## Calibration (for Service)

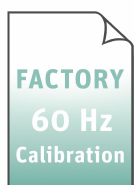


**Factory Calibration for MT3x0s2 series, 50 Hz**  
incl. ZERA calibration report.

Ord.No. **101242336**

**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.

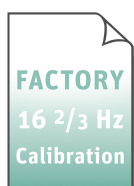


**Factory Calibration for MT3x0s2 series, 60 Hz**  
incl. ZERA calibration report.

Ord.No. **101242337**

**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.

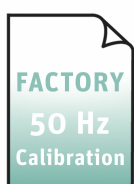


**Factory Calibration for MT3x0s2 series, 16 2/3 Hz**  
incl. ZERA calibration report.

Ord.No. **101242355**

**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.

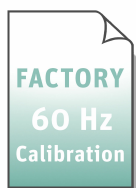


**Factory Calibration for MT3x0s2 series,  
along with current clamp CCx120, 50 Hz  
for L1-L2-L3-Aux**  
incl. ZERA calibration report.

Ord.No. **101242357**

**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 MT3x0s2 series,  
along with current clamp CCx120, 60 Hz  
for L1-L2-L3-Aux**

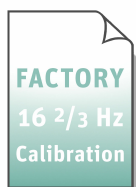
incl. ZERA calibration report.

Ord.No. 101242358

**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 MT3x0s2 series,  
along with current clamp CCx120, 16 2/3 Hz  
for L1-L2-L3-Aux**

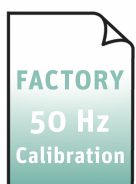
incl. ZERA calibration report.

Ord.No. 101242359

**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 50Hz  
for CCX120 / CCx300 / CCx1000  
(L1-L2-L3-AUX)**

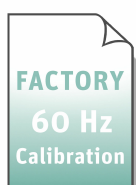
incl. ZERA calibration report.

Ord.No. 101242360

**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 60Hz  
for CCX120 / CCx300 / CCx1000  
(L1-L2-L3-AUX)**

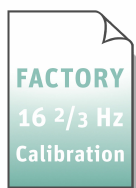
incl. ZERA calibration report.

Ord.No. 101242361

**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 16 2/3 Hz  
for CCX120  
(L1-L2-L3)**

incl. ZERA calibration report.

**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.

Ord.No. 101242362



**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



**DAkS DKD-Calibration for MT3x0s2, 50 Hz  
incl. DKD-Calibration Certificate acc. IEC 17025**

**Load points according to ZERA regulations.**

Summary of used load points  
can be downloaded at [www.zera.de](http://www.zera.de).

Additional load points are subject to charges.

Ord.No. 101173949



**DAkkS DKD-Calibration for MT3x0s2, 60 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173950**

**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 MT3x0s2**  
**incl. current clamp CCx120, L1-L2-L3, 50 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173951**

**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 MT3x0s2**  
**incl. current clamp CCx120, L1-L2-L3, 60 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173952**

**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 current clamp**  
**CCx120, L1-L2-L3, 50 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173953**

**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 current clamp  
CCx120, L1-L2-L3, 60 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173954**

**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 current clamp  
CCx300, L1-L2-L3, 50 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173955**

**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 current clamp  
CCx300, L1-L2-L3, 60 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173956**

**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 current clamp  
CCx1000, L1-L2-L3, 50 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173965**

**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 current clamp  
CCx1000, L1-L2-L3, 60 Hz**  
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **101173966**

**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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## 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)