



ZERA

RMM3006
Product Catalogue

Doc.No: 100352720
Version from: 01.07.2022

Device



RMM3006 Three Phase Reference Multimeter (Desktop design)

Inclusive adjustment for one mains frequency.

Ord.No. **100836401**

RMM3006 is a highly precise reference standard with good long term stability and accuracy. Therefore the Reference Multimeter is often used as Reference Standard at national Metrological Institutes or regional Bureaus of Standards. At accredited test labs from utilities or private holders the Reference Multimeter is frequent used as transfer standard for the repetitive tasks of testing other portable and stationary meter test equipment.

Configuration:

- Direct current measurement up to 500 V / 160 A
- Accuracy for power/energy measurement: $< \pm 0,02 \%$
- Comprehensive functionalities by supplied user software SMM3000 (for PC)
- Pulse input (BNC) for power proportional signals from reference meters (BNC cable optional)
- Scanning head input for pulses from static or electromechanical meters (scanning head optional)



RMM3006 Three Phase Reference Multimeter (19" Slip-in design)

Inclusive adjustment for one mains frequency.

Ord.No. **100836601**

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Factory Calibration for New Instrument



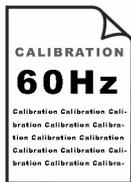
Factory Calibration for NEW RMM300x, 50 Hz
incl. ZERA calibration report.

Ord.No. **100007072**

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.



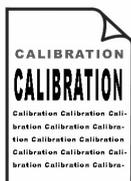
Factory Calibration for NEW RMM300x, 60 Hz
incl. ZERA calibration report.

Ord.No. **100007073**

This article applies only for a purchase of new device.

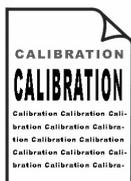
Load points according to ZERA regulations.
Summary of used load points
can be downloaded at www.zera.de.

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 RMM300x, 50 Hz
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **100006805**

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.

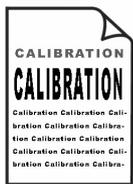


DAkKS DKD-Calibration for RMM300x, 60 Hz
incl. DKD-Calibration Certificate acc. IEC 17025

Ord.No. **100006884**

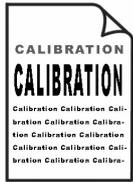
Load points according to ZERA regulations.
Summary of used load points
can be downloaded at www.zera.de.

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



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

Ord.No. **M00481006**

For supply via power socket.

- 1x class I grounded plug type E/F (CEE 7/7), straight
- 1x socket IEC 60320 C13



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

Ord.No. **M00481004**

For supply via power socket.

- 1x class I grounded plug type E/F (CEE 7/7)
- 1x socket IEC 60320 C13, angled

**Power cord "Plug type B to IEC 60320 C13", 2.5 m**

For supply via power socket.

- 1x plug type B
- 1x socket IEC 60320 C13

Ord.No.

X00006459**Power cord "Plug type I to IEC 60320 C13", 2.5 m**

For supply via power socket.

- 1x plug type I (AS/NZS 3112, 3-pin)
- 1x socket IEC 60320 C13

Ord.No.

X00006460**Power cord "Plug type G (BS 1363) to IEC 60320 C13", 2.5 m**

For supply via power socket.

- 1x Plug type G (BS 1363)
- 1x socket IEC 60320 C13

Ord.No.

X00009832**Power cord "Plug type D (BS 546) to IEC 60320 C13", 1.8 m**

For supply via power socket.

- 1x Plug type D (BS 546)
- 1x socket IEC 60320 C13

Ord.No.

100929900**Power cord "Plug type H" to IEC 60320 C13", 1.8 m**

For supply via power socket.

- 1x Plug type H
- 1x socket IEC 60320 C13

Ord.No.

100929903

Current and Voltage Cables (see also Special Accessories)



Laboratory cable with stackable plug, red, 2.0 m

Measurement category III (CAT III).

- 2x stackable 4 mm plugs with rigid insulating sleeve
- Lead cross section: 2.5 qmm

Ord.No. **X00007597**



Laboratory cable with stackable plug, yellow, 2.0 m

Measurement category III (CAT III).

- 2x stackable 4 mm plugs with rigid insulating sleeve
- Lead cross section: 2.5 qmm

Ord.No. **X00006907**



Laboratory cable with stackable plug, blue, 2.0 m

Measurement category III (CAT III).

- 2x stackable 4 mm plugs with rigid insulating sleeve
- Lead cross section: 2.5 qmm

Ord.No. **X00007598**



Laboratory cable with stackable plug, black, 2.0 m

Measurement category III (CAT III).

- 2x stackable 4 mm plugs with rigid insulating sleeve
- Lead cross section: 2.5 qmm

Ord.No. **X00006910**



Current cable up to 160 A , cable lug, closed // 2.0m

- 1x 8.5 mm cable lug,
- 1x 10.5 mm cable lug,
- Lead cross section: 50 qmm
- Phase colours: Please specify the colour code when ordering.

The cables will get a corresponding **coloured marking**.

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

Ord.No. **1012036xx**

xx please select the colour



Current cable up to 120 A, on double-side socket, 2.0 m,

- 2x 6 mm socket
- Lead cross section: 35 qmm
- Phase colours: Please specify the colour code when ordering. The cables will get a corresponding coloured marking.
21=black, 22=red, 23=blue, 24= yellow, 25=green, 26=violet, 27=brown, 28=grey, 29=white

xx please select the colour

Ord.No. **1011979xx**



Plug-in Adapter Pin 3 mm

For meter connection via terminal, realised as brass silver plated.

The two sides of the pin has different diameters and functions.

- 1 Side 6 mm **pin for test leads**
- 1 Side 3 mm-**pin for meter terminals**

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

Ord.No. **Z10120115**



Plug-in Adapter Pin 4,2 mm

For meter connection via terminal, realised as brass silver plated.

The two sides of the pin has different diameters and functions.

- 1 Side 6 mm **pin for test leads**
- 1 Side 4,2 mm-**pin for meter terminals**

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

Ord.No. **Z10120112**



Plug-in Adapter Pin 5,5 mm

For meter connection via terminal, realised as brass silver plated.

The two sides of the pin has different diameters and functions.

- 1 Side 6 mm **pin for test leads**
- 1 Side 5,5 mm-**pin for meter terminals**

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

Ord.No. **Z10120108**



Plug-in Adapter Pin 6 mm

The adapter is realized in brass silver plated. The two sides of the pin have the same dimensions (6 mm) and are special designed for ZERA 6 mm socket system used with current test leads and/or connection to modern ZERA meter test system (MTS).

Ord.No. **Z10120109**



Plug-in Adapter cable lug 8,5 mm closed

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

- 1 Side 6 mm **pin for test leads**
- 1 Side 8,5 mm-**cable lug closed in for screw terminals**

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

Ord.No. **100640906**



Plug-in Adapter cable lug 10,5 mm closed

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

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

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

Ord.No. **100640907**



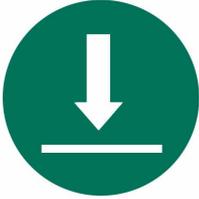
Current cable up to 120 A, double-side socket, 1.0 m, for connection between source and reference meter.

- 2x 6 mm socket
- Lead cross section: 35 qmm
- Phase colours: Please specify the colour code when ordering. The cables will get a corresponding coloured marking.
21=black, 22=red, 23=blue, 24= yellow, 25=green, 26=violet, 27=brown, 28=grey, 29=white

Ord.No. **1012006xx**

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.

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**

Connectors (see also Special Accessories)



Accessories bag with connection adapters

01 Accessories bag	100214400
04 Spring clip	100606750
10 Adapter for terminal blocks	101584400
04 4-mm test clips (crocodile clips), slim	X00009329
06 4-mm test clips (crocodile clips), wide	X00010059
10 Fuse, 1 A 5 mm x 20 mm, time-lag	M00460244
05 Fuse, 20 A 6,3 mm x 32 mm, time-lag	M00460185

Ord.No. **100023739**

Transport (see also Special Accessories)



Transport Case for RMM300x

Aluminum case with inlet from rigid foam, designed for

- 1 Instrument

Overall dimensions: 54 cm x 54 cm x 22 cm (H x W x D)

Ord.No. **X00010007**

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**



Coaxial cable with BNC plug, 3 m with BNC plugs on both cable sides

Ord.No. **Z09548330**

Documentation



Documentation RMM3006, German
 01 Operation manual (german) 100322270
 01 Interface description (german) 100322270

Ord.No. **100644480**



Complete documentation as pdf files on USB Stick

Ord.No. **100090716**

Special Accessories (Current and Voltage Cables)



Laboratory cable with stackable plug, green, 2.0 m
 Measurement category III (CAT III).
 • 2x stackable 4 mm plugs with rigid insulating sleeve
 • Lead cross section: 2.5 qmm

Ord.No. **X00006908**



Laboratory cable with stackable plug, violet, 2.0 m
 Measurement category III (CAT III).
 • 2x stackable 4 mm plugs with rigid insulating sleeve
 • Lead cross section: 2.5 qmm

Ord.No. **X00006909**



Laboratory cable with stackable plug, brown, 2.0 m
 Measurement category III (CAT III).
 • 2x stackable 4 mm plugs with rigid insulating sleeve
 • Lead cross section: 2.5 qmm

Ord.No. **100414100**

**Laboratory cable with stackable plug, grey, 2.0 m**

Measurement category III (CAT III).

- 2x stackable 4 mm plugs with rigid insulating sleeve
- Lead cross section: 2.5 qmm

Ord.No. **100739800****Laboratory cable with stackable plug, white, 2.0 m**

Measurement category III (CAT III).

- 2x stackable 4 mm plugs with rigid insulating sleeve
- Lead cross section: 2.5 qmm

Ord.No. **100662500****Special Accessories (Connectors)****Connecting terminals for current**

- Insulating screw joint for flexible wire connection max cable size 1,5 ... 16 mm²
- Socket: 4 mm rigid socket in insulator accepting spring-loaded 4 mm plugs with rigid insulating sleeve.

Ord.No. **X00011923****Adapter for terminal blocks**

- Connection via insulated flexible copper conductor.
- Socket: 4 mm rigid socket in insulator, made of brass, accepting spring-loaded 4 mm plugs with rigid insulating sleeve.

Ord.No. **X00004961****4 mm plug adapter (banana plug)**

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

Ord.No. **X00004962**



4 mm cable lug adapters

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

Ord.No. **X00004963**



Spring clip

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

Ord.No. **100606750**



Test plugs for terminal blocks

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

Ord.No. **100102400**



4 mm test clips (crocodile clips), wide

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

Ord.No. **X00010059**



4 mm test clips (crocodile clips), slim

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

Ord.No. **X00009329**



Accessories bag without content
DIN A6, material: polypropylene

Ord.No. **100214400**



Fuse, 20 A,
6.3 mm x 32 mm, time-lag

Ord.No. **M00460185**



Fuse 1 A
5 mm x 20 mm, time-lag type

Ord.No. **M00460244**

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**

Readjustment (only for Service)



Adjustment of RMM300x

Note: Calibration and Calibration report
are not included.

Ord.No. **100033856**

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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