



RMM3006

Product Catalogue

Doc.No: 100352720 Version from: 01.01.2024

Device



RMM3006 Three Phase Reference Multimeter (Desktop design)

Ord.No.

Ord.No.

Ord.No.

M00481006

M00481004

1016724xx

Inclusive adjustment and factory calibration	
for one mains frequency.	

Calibration	Ord.No.
Factory 50 Hz	$xx \rightarrow 00$
Factory 60 Hz	$xx \rightarrow 01$
DAkkS 50 Hz	$xx \rightarrow 02$
DAkkS 60 Hz	$xx \rightarrow 03$

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: < ±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)

Power Cords



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

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 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	Ord.No.	100929903

For supply via power socket. • 1x Plug type H • 1x socket IEC 60320 C13

Current and Volta	ige 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

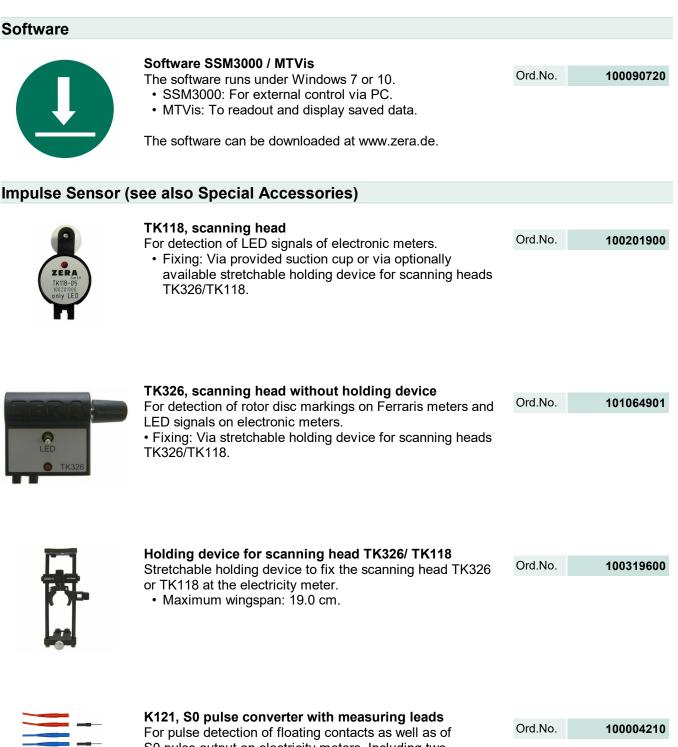
xx please select the colour

 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





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.

Connectors (see	Connection cable for RJ10 socke The spiral cable for connecting of T K121 to the ZERA instrument. • 2x Modular connector RJ10 • Length: 1.00 m / expanded: 6.00 also Special Accessories)	Kxxx or	Ord.No.	Z10353027
Transport (see al	Accessories bag with connection 01 Accessories bag 04 Spring clip 10 Adapter for terminal blocks 04 4-mm test clips (crocodile clips), slim 06 4-mm test clips (crocodile clips), wide 10 Fuse, 1 A 5 mm x 20 mm, time-lag 05 Fuse, 20 A 6,3 mm x 32 mm, time-lag so Special Accessories)	n adapters 100214400 100606750 101584400 X00009329 X00010059 M00460244 M00460185	Ord.No.	100023739
	Transport Case for RMM300x			
FIENA	Aluminum case with inlet from rigic designed for 1 Instrument <u>without</u> a Overall dimensions: 54 cm x 54 cm × 22 cm (H x W x E	accessories	Ord.No.	X00010007
Standard Access	ories (see also Special Acces	ssories)		
	Interface cable, RS232, crossed (null modem cable) Connection cable for communicatio • 2x D-Sub socket, 9-pin • Cable length: 3.00 m		Ord.No.	X00010844
	Coaxial cable with BNC plug, 3 n with BNC plugs on both cable sides		Ord.No.	Z09548330

Documentation			
	Complete Documentation as pdf files on USB flash drive	Ord.No.	100090716
Special Accesso	ries (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	Ord.No.	100414103



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

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Special Accessories	(Impulse Sensor)



K121, S0 pulse converter without measuring leads For pulse detection of floating contacts as well as of S0	Ord.No.
pulse output on electricity meters.	

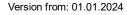
Special Accessories (Connectors)

Connecting terminals for current · Isulating 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.

Adapter for terminal blocks Ord.No. 101584400 • 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.

4 mm plug adapter (banana plug)

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



100662500

Z09894100

X00011923

X00004962

Ord.No.

Ord.No.

Ord.No.





Laboratory cable with stackable plug, white, 2.0 m

· 2x stackable 4 mm plugs with rigid insulating sleeve

Measurement category III (CAT III).

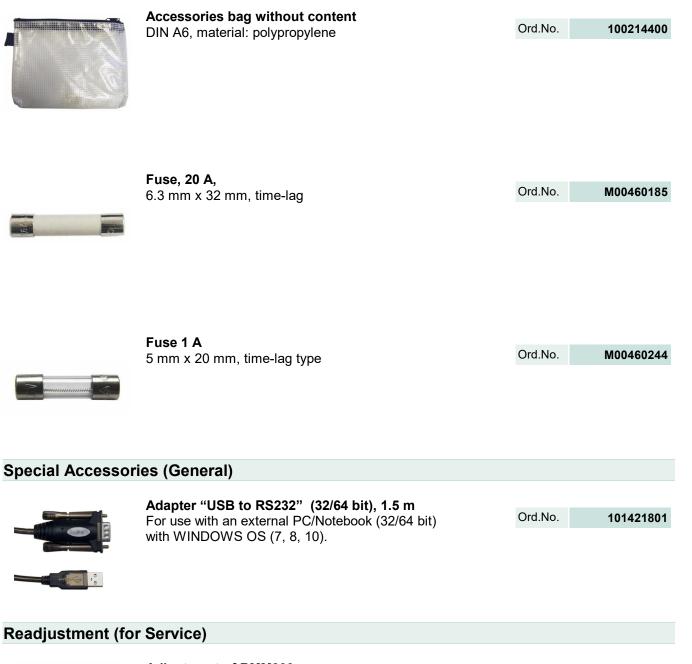
Lead cross section: 2.5 qmm





 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







Adjustment of RMM300x

Note: Calibration and Calibration report are not included.

100033856

Ord.No.

Calibration (for	Service)		
FACTORY 50 Hz Calibration	 Factory Calibration for RMM300x, 50 Hz incl. ZERA calibration report. 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. 	Ord.No.	100007005
FACTORY 60 Hz Calibration	 Factory Calibration for RMM300x, 60 Hz incl. ZERA calibration report. 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. 	Ord.No.	100007076
FACTORY Calibration	Factory Calibration for instrument, each additional load point for power and energy	Ord.No.	100007093
FACTORY Calibration	Factory Calibration for instrument, each additional load point for current and/or voltage	Ord.No.	100007094
DAkks 50 Hz Calibration	DAkkS DKD-Calibration for RMM300x, 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. Additional load points are subject to charges.	Ord.No.	100006805

Additional load points are subject to charges.

DARKS 60 Hz Calibration	 DAkkS DKD-Calibration for RMM300x, 60 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. Additional load points are subject to charges. 	Ord.No.	100006884
Calibration	DAkkS DKD-Calibration (acc. IEC 17025) for instrument, each additional load point for power and energy	Ord.No.	100006893
DAkks	DAkkS DKD-Calibration (acc. IEC 17025) for instrument, each additional load point for current / voltage	Ord.No.	100006894



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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