



ZERA

WMx000U
Product Catalogue

Doc.No: 100352718
Version from: 01.01.2024

Device



Voltage Transformer Measuring Unit WM3000U (19" Slip-in Unit)

Inclusive adjustment and factory calibration for one mains frequency.

Ord.No. **1016736xx**

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

The Voltage Transformer Measuring Unit WM3000U is a high-precision comparator unit for comparing the secondary signal from transformer under test with a reference signal supplied by a standard voltage transformer.

Operation will be performed via integrated 10.1" touch screen or externally via interface.

The unit is able to test the following types of CTs:

- VTs, acc. IEC61869-1/3 and ANSI/IEEE C57.13
- VTs with DC output, acc. IEC61869-15 (optional)
- EVT's (acc. IEC61869-7),
- LPVT's (acc. IEC61869-11) and digital information of non-conventional transformers (acc. IEC61850-9-2)



Voltage Transformer Measuring Unit WM1000U (19" Slip-in Unit)

Inclusive adjustment and factory calibration for one mains frequency.

Ord.No. **1016737xx**

Calibration	Ord.No.
Factory 50 Hz	xx → 00
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The unit is able to test

- VTs (acc. IEC61869-1/3 and ANSI/IEEE C57.13).

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

Ord.No.

M00481006



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 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 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



**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**

Current and Voltage Cables (see also Special Accessories)



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**



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

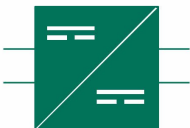
Ord.No. **100804900**

Software



CheckCon 4 inclusive WIBU-Key
Database based control and visualization software for
Transformer Measuring Unit WM3000I/WM1000I and
WM3000U/WM1000U incl. transformer type definition
tables,
testing procedures, automatic evaluation based on
predefined error limits, error compensation of reference
transformer and recording of measured values.

Ord.No. **101422601**



Option: DC measurement mode for WM3000U
The Measuring Bridges for Voltage Transformers
WM3000U will be upgraded to measure DC signals
Inclusive factory calibration.

Ord.No. **100078880**

Transport (see also Special Accessories)



Transport Case 1 with wheels for COM500x; WM3000; WM1000

Ord.No. **100023908**

Ultra High Impact Copolymer Polypropylene case with inlet from rigid foam, designed for

- 1 Instrument
- Accessories

Overall dimensions:

80,8 cm x 58,7 cm x 48,4 cm (H x W x D)

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

Standard Accessories (see also Special Accessories)



Mouse Dell MS111 USB connection

Ord.No. **100847000**



Connection Adapter CA500

To connect EVT/ECTs according IEC61869-7/8 or IEC60044-7/8 via Twin-BNC, BNC and RJ45.

With selector switch 1 GOhm/2 MOhm and 10 pF/100 pF.

Ord.No. **101506000**



Dell-Keyboard, (QWERTY)

- USA/Europe keyboard layout
- USB connection

Ord.No. **100846600**



Dell-Keyboard, (QWERTZ)

- German keyboard layout
- USB connection

Ord.No. **100846700**

**Patch cable RJ45, 1 m**Ord.No. **100161606****Patch cable RJ45, 3 m**Ord.No. **100161607****Patch cable RJ45, 5 m**Ord.No. **100161603****Media converter 100Base-TX to 100Base-FX**

- RJ45 to fiber optic cable, multimode
- 71 x 26 x 94 mm
- with power supply

Note when using with WM3000 / WM1000:

You need two converters, two patch cables and one bipolar optical fibre cable for the connection to PC and WM3000 / WM1000.

Ord.No. **100720801****Optical fibre cable, 5 m, bipolar**

- OM2 fibre
- Colour: orange

Ord.No. **100720750**



Set - Fuse 1,6 A / time-lag Type
10 pcs.

Ord.No. **101393500**

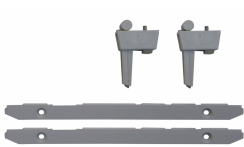
Documentation



Complete Documentation
as pdf files on USB flash drive

Ord.No. **100090716**

Special Accessories (General)



WM1000 / WM3000 Kit
Rebuild in desktop unit

Ord.No. **100783100**

Readjustment (for Service)



Adjustment of WM3000U

Ord.No. **101049001**

Note: Calibration and Calibration report are not included.

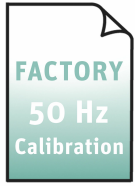


Adjustment of WM1000U

Ord.No. **101049003**

Note: Calibration and Calibration report are not included.

Calibration (for Service)

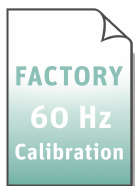


Factory Calibration for WM3000U, 50 Hz
incl. ZERA calibration report.

Ord.No. **100519762**

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.

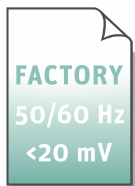


Factory Calibration for WM3000U, 60 Hz
incl. ZERA calibration report.

Ord.No. **100519764**

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 of voltage range
< 20 mV for WM3000U, 50 Hz / 60 Hz**
incl. ZERA calibration report.

Ord.No. **101242344**

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

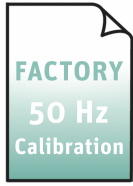


**Factory calibration of DC measurement mode for
WM3000U**
incl. ZERA calibration report.

Ord.No. **101242333**

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.

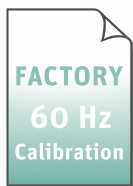


Factory Calibration for WM1000U, 50 Hz
incl. ZERA calibration report.

Ord.No. **101045252**

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 WM1000U, 60 Hz
incl. ZERA calibration report.

Ord.No. **101045253**

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 WM3000U, 50 Hz
for conventional instrument transformer (VTs) and
sensors (EVTs) acc. IEC 61869-1, -3, -7
(old: IEC 60044-2, -7), incl. DAkkS/DKD calibration
certificate acc. IEC 17025

Ord.No. **100519641**

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 WM3000U, 60 Hz
for conventional instrument transformer (VTs) and
sensors (EVTs) acc. IEC 61869-1, -3, -7
(old: IEC 60044-2, -7), incl. DAkkS/DKD calibration
certificate acc. IEC 17025

Ord.No. **100519643**

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 WM1000U, 50 Hz**

for conventional instrument transformers (VTs)
acc. IEC61869-1, -3 (old IEC 60044-2)
incl. DAkkS/DKD calibration certificate acc. IEC 17025

Ord.No. **101045352****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 WM1000U, 60 Hz**

for conventional instrument transformer (VTs)
acc. IEC61869-1, -3 (old: IEC 60044-2)
incl. DAkkS/DKD calibration certificate acc. IEC 17025

Ord.No. **101045353****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