



COM500x

Product Catalogue

Doc.No: 100352729
Version from: 01.02.2026

Device



COM5003 Three Phase Comparator

Inclusive adjustment and factory calibration for one mains frequency.

Ord.No. **1016720xx**

Calibration	Ord.No.	Add.Price
Factory 50 Hz	xx --> 00	0,00 EUR
Factory 60 Hz	xx --> 01	0,00 EUR
DAkKS 50 Hz	xx --> 02	5.170,00 EUR
DAkKS 60 Hz	xx --> 03	5.170,00 EUR

COM5003 is a highly precise Comparator which offers the opportunity to compare the tractability of the internal frequency and the AC/DC transfer voltage to external Standards.

Configuration:

- Direct current measurement up to 580 V / 160 A
- Accuracy for power/energy measurement: < $\pm 0,005$ %
- Power measurement with alternating energy direction
- Active impedance compensation for currents ≤ 100 mA
- Integrated Linux OS
- Capacitive user touch screen



COM5002 Three Phase Comparator

Inclusive adjustment and factory calibration for one mains frequency.

Ord.No. **1016721xx**

Calibration	Ord.No.	Add.Price
Factory 50 Hz	xx --> 00	0,00 EUR
Factory 60 Hz	xx --> 01	0,00 EUR
DAkKS 50 Hz	xx --> 02	5.170,00 EUR
DAkKS 60 Hz	xx --> 03	5.170,00 EUR

COM5002 is a highly precise Comparator which offers the opportunity to compare the tractability of the internal frequency and the AC/DC transfer voltage to external Standards.

Configuration:

- Direct current measurement up to 580 V / 160 A
- Accuracy for power/energy measurement: < $\pm 0,008$ %
- Power measurement with alternating energy direction
- Active impedance compensation for currents ≤ 100 mA
- Integrated Linux OS
- Capacitive user touch screen

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 “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

Ord.No.

M00481004

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, 2.0 m,

- 1x 8 mm socket
- 1x 10,5 mm cable lug
- Lead cross section: 50 qmm
- Phase colours:
Please specify the colour code when

Ord.No. **1011942xx**

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



Connection-Adapter (8,5mm lug)

Lockable adapter plug to connect cables with cable lugs to the 8 mm plug system of the instrument.

Designed as

- 8 mm plug
- 8,5 mm screw terminal

For each phase 1 adapter is required.

Ord.No. **101027920**



Connection-Adapter (6 / 4 mm plug system)

Lockable adapter plug to connect cables via 6 / 4 mm plugs the instrument.

Designed as

- 8 mm plug
- 6 / 4 mm socket system

For each phase 2 adapters are required.

Ord.No. **101155610**



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**



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

xx please select the colour

Ord.No. **1012006xx**



Current cable up to 120 A, on double-side socket, 1.2 m,

- 1x 8 mm socket
- 1x 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. **1017487XX**



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**

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. **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**



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. **Z10353027**

Connectors (see also Special Accessories)



Accessories bag with connection adapters (COM500x)

01	Accessories bag	100214400
04	Spring clip	100606760
10	Adapter for terminal blocks	101584400
06	Adapter with cable lug	X00004963
04	4-mm test clips (crocodile clips), slim	X00009329
06	4-mm test clips (crocodile clips), wide	X00010059
10	Fuse, 3.15 A 5 mm x 20 mm, time-lag	M00460252

Ord.No. **100023743**

Transport (see also Special Accessories)



Transport Case 1 with wheels for COM500x; WM3000; WM1000

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.

Ord.No. **100023908**

Standard Accessories (see also Special Accessories)



Patch cable RJ45, 1 m

Ord.No. **100161606**

**Patch cable RJ45, 3 m**Ord.No. **100161607****Patch cable RJ45, 5 m**Ord.No. **100161603****Coaxial cable with BNC plug, 2 m**
• 2x BNC plugOrd.No. **Z09548320****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 driveOrd.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. **100414103**



- 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)



- Cable bridge, black, 0.25 m**
 Measurement category III (CAT III).
- 2x stackable 4 mm plugs with rigid insulating sleeve
 - Lead cross section: 2.5 qmm

Ord.No. **X00003092**



Connecting terminals for current

- Isolating 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. **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. **100606760**



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, 3.15 A, 5 mm x 20 mm, time-lag

Ord.No. **M00460252**



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**



Interface cable, RS232, crossed wired (null modem cable)

Connection cable for communication

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

Ord.No. **X00010844**

**Pulse shaper K129**

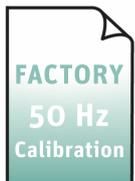
The adapter K129 can be connected between the TTL-output and the Fin-input. The TTL-level will be converted into an Open-Collector-output. The necessary power supply (> 3.4 V / approx. 40 μ A) will be provided by the input, resp. output signal.

Ord.No. **100311100****Pulse Scaler K133**

The adaptor K133 is for the reduction ratio (1000:1, 100:1, 10:1, 1:1) of working standard pulses.
Input: BNC
Output: RJ10 socket

Ord.No. **100453201****Readjustment (for Service)****AC-Adjustment of COM500x**

Note: Calibration and Calibration report are not included.

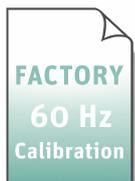
Ord.No. **101049020****Calibration (for Service)**

AC Factory Calibration for COM500x, 50 Hz
incl. ZERA calibration report.

Ord.No. **100890841****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.



AC Factory Calibration for COM500x, 60 Hz
incl. ZERA calibration report.

Ord.No. **100890842****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.



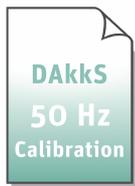
Factory Calibration
for instrument, each additional
load point for power and energy

Ord.No. **100007093**



Factory Calibration
for instrument, each additional
load point for current and/or voltage

Ord.No. **100007094**

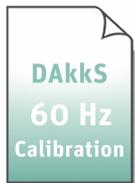


AC-DKD-Calibration 50 Hz for COM500x
• Incl. DKD calibration certificate acc. IEC 17025

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

Ord.No. **100519689**

Additional load points are subject to charges.



AC-DKD-Calibration 60 Hz for COM500x
• 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.

Ord.No. **101173903**

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

ZERA GmbH
Humboldtstrasse 2a
D-53639 Koenigswinter
Phone: +49 (0)2244 9277-0
E-Mail: zera@zera.de
Internet: www.zera.de
Managing Director: Horst Wächter
Headquarter: Königswinter

Commerzbank Bonn
IBAN: DE29 3804 0007 0113 3131 00
SWIFT (BIC): COBADEFF380

Kreissparkasse Köln
IBAN: DE15 3705 0299 0001 0784 92
SWIFT (BIC): COKSDE33

HRB 7073 Siegburg
VAT-IdNo. DE 218 515 479
WEEE-Reg.Nr. DE 53879641

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