

Product catalogue

COM1003/3003



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1 Basic system COM1003/3003

1.1 Single-phase power comparator COM1003

	<p>Single phase power comparator COM1003</p> <p>Order code 100035100</p> <p>Single-phase power comparator COM1003 Z10315600</p> <p>Desk top unit; accuracy cl. 0.01 Designed for calibration of:</p> <ul style="list-style-type: none"> - Reference- and working standards - High precision electricity meters - Precision current and voltage sources - Electrical measuring instruments - Stationary meter testing systems <p><u>Standard accessories:</u></p> <table border="0"> <tr> <td>1 Coaxial-cable BNC-BNC</td> <td>Z09548330</td> </tr> <tr> <td>1 Adaptor UHF-BNC</td> <td>M00466008</td> </tr> <tr> <td>1 RS232 - cable, SubD9 f / SubD9 m</td> <td>Z08460530</td> </tr> <tr> <td>1 RS232 - cable, SubD9 f / SubD25 f</td> <td>X00010844</td> </tr> <tr> <td>5 spare fuses</td> <td>M00460252</td> </tr> <tr> <td>1 PC software SSM3000 / MTVis</td> <td>100090700</td> </tr> <tr> <td>1 Compact-flash memory card</td> <td>X00011896</td> </tr> <tr> <td>1 USB flash card reader</td> <td>X00011897</td> </tr> <tr> <td>1 Mains cable, Type "F"</td> <td>M00460006</td> </tr> <tr> <td>1 Operating manual (English)</td> <td>Z10315801</td> </tr> <tr> <td>Factory calibration report</td> <td></td> </tr> </table> <p>Further information can you find in the brochure: „Comparator COM1003/3003“</p>	1 Coaxial-cable BNC-BNC	Z09548330	1 Adaptor UHF-BNC	M00466008	1 RS232 - cable, SubD9 f / SubD9 m	Z08460530	1 RS232 - cable, SubD9 f / SubD25 f	X00010844	5 spare fuses	M00460252	1 PC software SSM3000 / MTVis	100090700	1 Compact-flash memory card	X00011896	1 USB flash card reader	X00011897	1 Mains cable, Type "F"	M00460006	1 Operating manual (English)	Z10315801	Factory calibration report	
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1.2 Three-phase power comparator COM3003

	<p>Single phase power comparator COM3003</p>																										
	<p>Order code 100022600</p>																										
	<p>Three-phase power comparator COM3003 Z10315800</p>																										
	<p>Desk top unit; accuracy class 0.01 Designed for calibration of: - Reference- and working standards - High precision electricity meters - Precision current and voltage sources - Electrical measuring instruments - Stationary meter testing systems</p>																										
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1.3 Single-phase power comparator COM1003 DC

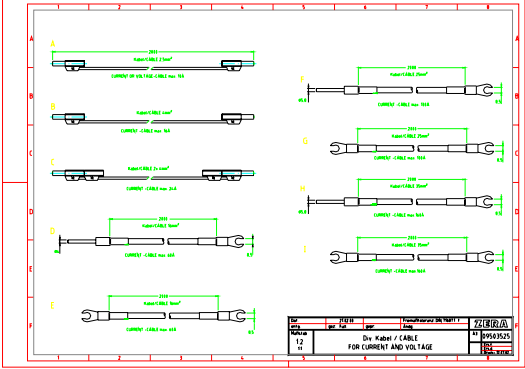
 <p>Technical specification:</p> <p>Voltage measurement 30V ... 500V</p> <p>Accuracy (AC) < 30ppm</p> <p>Accuracy (DC) < 100ppm</p> <p>Current measurement 1mA ... 160A</p> <p>Accuracy (AC) < 50ppm</p> <p>Accuracy (DC) < 300ppm</p> <p>Power and energy measurement</p> <p>Accuracy (AC) < 100ppm</p> <p>Accuracy (DC) < 400ppm</p>	<p>Single phase power comparator COM1003 DC</p> <p>Order code Z10390000</p> <p>Single-phase power comparator COM1003 DC Z10315600</p> <p>Desk top unit, accuracy cl 0.01 with DC - Measuring mode.</p> <p>Designed for calibration of:</p> <ul style="list-style-type: none"> - AC and DC values for voltage and current - Reference- and working standards - High precision electricity meters - Precision current and voltage sources - Electrical measuring instruments - Stationary meter test systems <p><u>Standard accessories:</u></p> <table border="0"> <tr> <td>1 coaxial-cable BNC-BNC</td> <td>Z09548330</td> </tr> <tr> <td>1 adaptor UHF-BNC</td> <td>M00466008</td> </tr> <tr> <td>1 RS232 - cable, SubD9 f / SubD9 m</td> <td>Z08460530</td> </tr> <tr> <td>1 RS232 - cable, SubD9 f / SubD25 f</td> <td>X00010844</td> </tr> <tr> <td>2 cable bridges</td> <td>X00003092</td> </tr> <tr> <td>5 spare fuses</td> <td>M00460252</td> </tr> <tr> <td>1 PC software SSM3000</td> <td>100004400</td> </tr> <tr> <td>1 data management software MTVis</td> <td>100023500</td> </tr> <tr> <td>1 compact-flash memory card</td> <td>X00011896</td> </tr> <tr> <td>1 USB flash card reader</td> <td>X00011897</td> </tr> <tr> <td>1 mains cable, Type "F"</td> <td>M00460006</td> </tr> <tr> <td>1 operating manual (English)</td> <td>Z10315801</td> </tr> <tr> <td>Factory calibration report</td> <td></td> </tr> </table> <p>Further information can you find in the brochure: „Comparator COM1003/3003“</p>	1 coaxial-cable BNC-BNC	Z09548330	1 adaptor UHF-BNC	M00466008	1 RS232 - cable, SubD9 f / SubD9 m	Z08460530	1 RS232 - cable, SubD9 f / SubD25 f	X00010844	2 cable bridges	X00003092	5 spare fuses	M00460252	1 PC software SSM3000	100004400	1 data management software MTVis	100023500	1 compact-flash memory card	X00011896	1 USB flash card reader	X00011897	1 mains cable, Type "F"	M00460006	1 operating manual (English)	Z10315801	Factory calibration report	
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1.4 Three-phase power comparator COM3003 DC

	<p>Single phase power comparator COM3003 DC</p> <p>Order code 100022602</p> <p>Three-phase Comparator COM3003 DC Z10363100 desk top unit; accuracy class 0.01 with DC - Measuring mode. Designed for calibration of: - AC and DC values for voltage and current - Reference- and working standards - High precision electricity meters - Precision current and voltage sources - Electrical measuring instruments - Stationary meter test systems</p> <p><u>Standard accessories:</u></p> <table border="0"> <tr><td>1 coaxial-cable BNC-BNC</td><td>Z09548330</td></tr> <tr><td>1 adaptor UHF-BNC</td><td>M00466008</td></tr> <tr><td>1 RS232 - cable, SubD9 f / SubD9 m</td><td>Z08460530</td></tr> <tr><td>1 RS232 - cable, SubD9 f / SubD25 f</td><td>X00010844</td></tr> <tr><td>2 cable bridges</td><td>X00003092</td></tr> <tr><td>5 spare fuses</td><td>M00460252</td></tr> <tr><td>1 PC software SSM3000</td><td>100004400</td></tr> <tr><td>1 data management software MTVis</td><td>100023500</td></tr> <tr><td>1 compact-flash memory card</td><td>X00011896</td></tr> <tr><td>1 USB flash card reader</td><td>X00011897</td></tr> <tr><td>1 mains cable, Type "F"</td><td>M00460006</td></tr> <tr><td>1 operating manual (English)</td><td>Z10363101</td></tr> <tr><td>Factory calibration report</td><td></td></tr> </table> <p>Further information can you find in the brochure: „Comparator COM1003/3003“</p>	1 coaxial-cable BNC-BNC	Z09548330	1 adaptor UHF-BNC	M00466008	1 RS232 - cable, SubD9 f / SubD9 m	Z08460530	1 RS232 - cable, SubD9 f / SubD25 f	X00010844	2 cable bridges	X00003092	5 spare fuses	M00460252	1 PC software SSM3000	100004400	1 data management software MTVis	100023500	1 compact-flash memory card	X00011896	1 USB flash card reader	X00011897	1 mains cable, Type "F"	M00460006	1 operating manual (English)	Z10363101	Factory calibration report	
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2 Cable sets

2.1 Cable set for COM1003

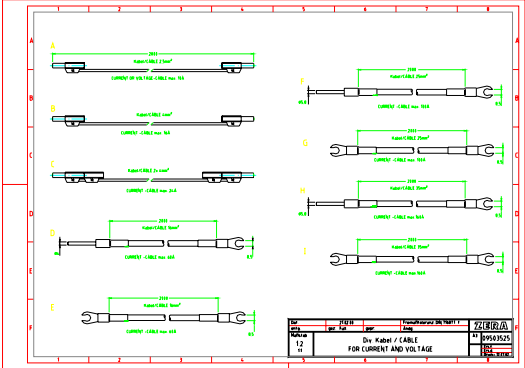


Cable set for COM1003
Order code [X00007607](#)

Consist of:
Current cable set
 2 Cables 35mm², 2 m lg. with cable lug

Voltage cables set with 4mm safety plug
 1 Cable 2,5mm², 2 m lg.,red
 1 Cable 2,5mm², 2 m lg.,black

2.2 Cable set for COM3003



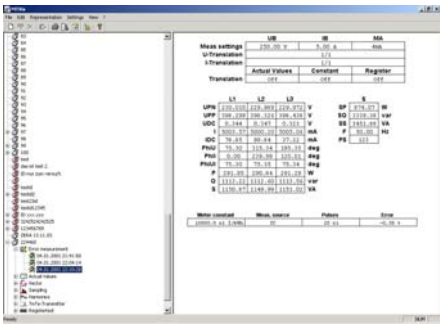
Cable set for COM3003
Order code [X00005593](#)

Consist of:
Current cable set
 2 Cables 35mm², 2 m lg. with cable lug, red
 2 Cables 35mm², 2 m lg. with cable lug, yellow
 2 Cables 35mm², 2 m lg. with cable lug, blue

Voltage cables set with 4mm safety plug
 1 Cable 2,5mm², 2 m lg.,red
 1 Cable 2,5mm², 2 m lg.,yellow
 1 Cable 2,5mm², 2 m lg.,blue
 1 Cable 2,5mm², 2 m lg.,black


3 Software

3.1 MTVis Data management software



MTVis Windows software
Order code 100023500

3.2 SSM3000 control software

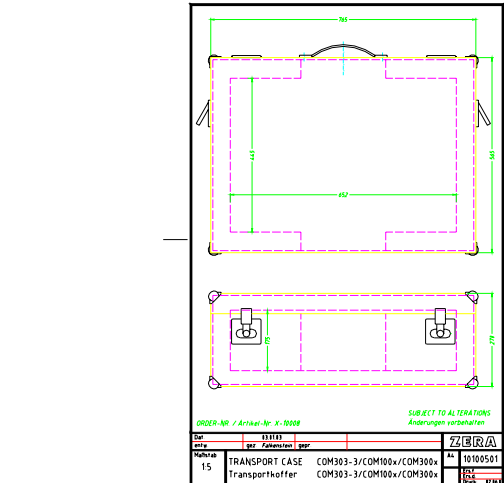


SSM3000 control software
Order code 100004400

Windows control software SSM3000 V3.18
 The SSM3000 software package is Windows based application for external control of the ZERA test units.

4 Transport case

4.1 Transportation case for COM1003/3003



Aluminium case


Order code X00010008

Dimensions
HxWxD 652x445x175mm


for secure transportation of the measuring instrument

5 Scanning head units

5.1 Photo electric scanning head unit TK326


	<p>Photo electric scanning head unit TK326 Order code 100102201</p> <p>for detection of rotor-disc signals on Ferraris meters and flashing LED signals on static meters. 100313300</p> <p>Including holding arrangement 100319600 Including connection spiral cable (length 6m) Z10353027</p>
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5.2 Photo electric scanning head unit TK118-5


	<p>Photo electric scanning head unit TK118- Order code 100101400</p> <p>LED-Scanning head TK118-05 the TK118 is designed to pick up the energy proportional impulses of the light-emitting diode on solid-state meters. A permanent magnet belongs to the TK118, thus enabling the TK118 to be magnetically attached to the meter under test. A sucker enabling the TK118 also to be attached in the correct position in front of the light-emitting diode. The TK118 scanning head can be used on the most electronic meter test devices.</p> <p><u>Dimensions</u></p> <table> <tr> <td>Diameter</td> <td>φ33mm</td> </tr> <tr> <td>Height</td> <td>28mm; incl. sucker and permanent ring-magnet</td> </tr> <tr> <td>Spiral cable</td> <td>with a length of up to 6m</td> </tr> </table>	Diameter	φ33mm	Height	28mm; incl. sucker and permanent ring-magnet	Spiral cable	with a length of up to 6m
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Height	28mm; incl. sucker and permanent ring-magnet						
Spiral cable	with a length of up to 6m						

6 Calibration

6.1 DKD-Calibration certificate for COM1003

 <p>Physikalisch-Technische Bundesanstalt (PTB) Braunschweig und Berlin Deutscher Kalibrierdienst (DKD) verbunden mit Deutschen Akkreditierungsrat Akkreditierung</p> <p>Die Physikalisch-Technische Bundesanstalt (PTB) akkreditiert hiermit das Kalibrierlaboratorium für elektrische Messgrößen bei Zera GmbH Hauptstraße 302 53639 Königswinter</p> <p>als Kalibrierlaboratorium nach DIN EN 45001 für Kalibrierungen in folgenden Bereichen: Gleichspannung, Wechselspannung, Wechselstromstärke, Wechselstrom-Wirkleistung, Wechselstrom-Wirkenergie, Wechselstrom-Blindleistung, Wechselstrom-Blindenenergie</p> <p>Bestandteil der Urkunde ist: Anlage 1 (2. Seiten), 2000-01-27</p> <p>DAR-Registrierungsnummer: DKD-K-23001</p> <p>Braunschweig, 2000-01-27</p> <p>Dr. u. Prof. Dr.-H. Krumm Präsident des Präsidiums der PTB</p> <p>Dr. u. Prof. Dr. H. Behmer Kollaborator in der PTB</p>	<p>DKD Calibration certificate Order code 100006803</p>
	<p>System calibration according to IEC 17025. Traceable to PTB standards.</p>

6.2 DKD-Calibration certificate for COM3003

 <p>Physikalisch-Technische Bundesanstalt (PTB) Braunschweig und Berlin Deutscher Kalibrierdienst (DKD) verbunden mit Deutschen Akkreditierungsrat Akkreditierung</p> <p>Die Physikalisch-Technische Bundesanstalt (PTB) akkreditiert hiermit das Kalibrierlaboratorium für elektrische Messgrößen bei Zera GmbH Hauptstraße 302 53639 Königswinter</p> <p>als Kalibrierlaboratorium nach DIN EN 45001 für Kalibrierungen in folgenden Bereichen: Gleichspannung, Wechselspannung, Wechselstromstärke, Wechselstrom-Wirkleistung, Wechselstrom-Wirkenergie, Wechselstrom-Blindleistung, Wechselstrom-Blindenenergie</p> <p>Bestandteil der Urkunde ist: Anlage 1 (2. Seiten), 2000-01-27</p> <p>DAR-Registrierungsnummer: DKD-K-23001</p> <p>Braunschweig, 2000-01-27</p> <p>Dr. u. Prof. Dr.-H. Krumm Präsident des Präsidiums der PTB</p> <p>Dr. u. Prof. Dr. H. Behmer Kollaborator in der PTB</p>	<p>DKD Calibration certificate Order code 100006804</p>
	<p>System calibration according to IEC 17025. Traceable to PTB standards.</p>