

NEW!

INNOVATIVE
OPERATING
CONCEPT
via TABLET PC

Appliance Tester TG omni 1

With combinable measurement modules
for testing safety measures in accordance with

- DIN VDE 0701-0702 / ÖVE E8701 / NEN 3140
DGUV Regulation 3 (BGV A3)
- IEC/EN 60974-4 / DIN VDE 0544-4
Arc Welders
- IEC/EN 62353 / DIN VDE 0751-1
Medical Devices and Systems

Product Highlights

- **Automatic Detection of the test object**
with predefined test parameters from
the barcode / QR code on the tablet
camera
- **Management of test objects and
customers** within the app and thus
locally
- **Test Report as PDF file**
incl. Photo documentation when
required, on the tablet camera
- **Sending the Test Reports**
by e-mail, output to WLAN / Bluetooth
printer



Measurements according to standard

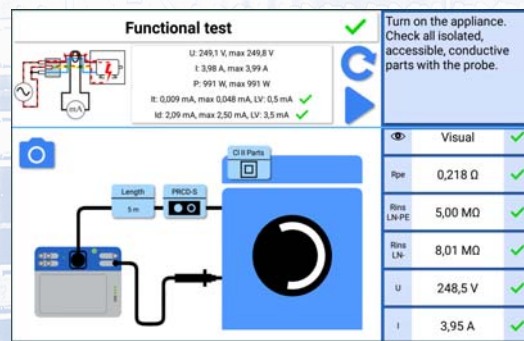
Protective conductor resistance	0.00 ... 4.00 Ω Open-circuit voltage 10 V Test current 200 mA DC / optional 10 A DC
Insulation resistance	0.00 M Ω ... 20.00 M Ω Measurement voltage 250 V, 500 V Short-circuit current 1 mA
Integrated residual current shutdown	Differential current > approx. 25 mA
Substitute leakage current	0.00 mA ... 20.00 mA Open-circuit voltage approx. 230 V
Differential current in accordance with DIN VDE 0404-4 for correct evaluation of the harmonics	Test socket: 0.00 mA ... 20.00 mA Diff. current clamp TGSZ 40 (optional): 0.00 mA ... 40.00 A
Touch current	0.00 mA ... 4.00 mA
Measurement accuracy in the above ranges	$\pm 5\%$ of meas. value, $+1\%$ of end value
Voltage	0.0 V ... 250.0 V AC $\pm 1\%$
Current	0.00 A ... 20.00 A $\pm 2\%$ Diff. current clamp TGSZ 40 (optional): 0.00 A ... 40.00 A $\pm 2\%$
Total power	0 W ... 4.000 W $\pm 2\%$
Protective conductor monitoring	Voltage N-PE > 30 V Floating function via finger contact
Interface to Tablet	Bluetooth
Memory, real time clock	Tablet memory (internal + SD card), Tablet clock
Test procedures	PC I, PC II active/passive (with or without main), PC III, permanent connection, extension cable, individual measurement

Technical characteristics

Measuring ranges for functional test	
Voltage	190 ... 250 V AC $\pm 1\%$
Current	0 ... 16 A AC $\pm 2\%$
Active power	0 ... 3700 W $\pm 2\%$
General technical data	
Display	7-inch Tablet PC, 1,280 x 800 Pixel (WXGA)
Memory capacity	Tablet internal memory + SD card
Power supply	230 V AC, 50 ... 60 Hz, 10 VA $\pm 10\%$
Degree of pollution	2
Overvoltage category	CAT II 300 V
Protection degree	IP 20
Electrical safety in accord. with EMV in accordance with	EN 61010-1 / VDE 0404 / VDE 0411 EN 55011 / EN 61000-4-2
Dimensions	300 x 250 x 130 mm (W x D x H)
Weight (incl. accessories)	approx. 3.2 kg

Menu guidance

Example for testing protective conductor resistance:



Operation and functions

- Data transfer tablet device tester via **Bluetooth**
- Direct scanning of **barcode/QR** code via tablet camera app
- Photos** of test object can be implemented directly in the test protocol
- Generation of **PDF** test protocols in the tablet
- Transfer** of PDF test protocols to the **PC or printer** using standard Android tools

Options

Option 10A

This option makes it possible to measure the protective conductor resistance with a test current of 10 A DC.

Option ARC

With this option, arc welders can be tested in accordance with DIN VDE 0544-4 / EN/IEC 60974-4. The current source is loaded via an integrated electronic potentiometer.

Option RCD 30 mA / RCD 500 mA

With this option, RCDs of types A, B (sensitive to all types of current), PRCD, PRCD-S and PRCD-K can be tested in construction power distributors or extensions (10 mA to 30 mA or 10 mA to 500 mA). The trigger current and the tripping time are tested and documented. For types PRCD-S/K, the additionally installed person protection functions are tested.

Option MED

This option supplements the already extensive test options by offering measurements and test procedures for medical devices with application parts of type B, BF and CF in accordance with the DIN VDE 0751-1 / EN 62353 norms.

Order informations

Appliance Tester / Options	Order Number	Recommended accessories	Order Number
TG omni 1			
Basic Unit with Schuko-Plug , omni App and Measuring Module for DIN VDE 0701-0702, without Tablet PC	66000 00000	Tablet PC 7-inch, WLAN, 8 GB, Android 5.1, Book-Cover, omni App pre-installed	79200 19000
Basic Unit as above, with Plug for CH	66002 00000	Current clamp TGSZ 40 0...40 A	79200 19010
Basic Unit as above, with Plug for FR, BE, CZ, PL	66003 00000	Three-phase adapter TCEE 16 A for TGSZ 40	79200 19050
		Three-phase adapter TCEE 32 A for TGSZ 40	79200 19060
Optional Measurement Modules freely selectable and in any combination		Active three-phase adapter TGA 16 A	79200 18692
10 A		Active three-phase adapter TGA 32 A	79200 18691
ARC		Passive three-phase adapter TGP 16/32 A	79200 18690
RCD 30 mA		Three-phase adapter VLCEE 16 A for extension cable	79200 19030
RCD 500 mA		Three-phase adapter VLCEE 32 A for extension cable	79200 19040
MED		Brush probe for testing of rotating parts	79100 86049
		12x adapter for medical devices	61000 01001

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