

## Product information

### PC-Compact-Tester ACT65 (91-6G)



← Automatic test sequence via external PC and Software

← DC-High Voltage Test with voltage ramp

← PE Conductor Test

← Insulation Resistance Test

← Leakage Current Test

← Continuity /Resistance Test

← I-, U-, P-Measurement (16 A) for Functional Test

← Operation with safety test cabinet

**Hardware:** The PC-Compact-Tester can be utilized in connection with an external PC as a full safety test system (possible tests to be carried out see above). The device is built up complete modularly. This construction permits an optimal adaptation to the individual needs of the user. Equipment which is not required, e.g. interfaces, displays, test modules, is not integrated and therefore do not have influence on the retail price.

**Operation:** The operation of the tester and the control of the tests are carried out completely with the ELABO software package 95-9B Z9-6G1 via PC. There are no operating devices available at the Compact-Tester. The communication between PC and Compact-Tester is carried out via an Ethernet connection.

**Terminal connection:** The test item gets connected to the test device via a central high voltage connector. Switchover of the test modes is made via the integrated switching unit. It is not necessary to change the connection of the test item for different test modes. For the contacting of the item to be tested are connecting boxes or test cabinets available.

**Software:** ELABO delivers a comfortable software package together with the PC-Compact-Tester. The software makes the control possible of the tests via test schedules which contain all defaults and limiting values. The test run is subdivided in test steps, e.g. HV, PE, ISO, R; P, Visual, Note etc.. Equal types of test steps, e.g. PE, can exist repeatedly in the test schedule with different limiting values. The construction of the testing sequence is variable and can individually be adapted to the test item and required activities on the test. The software provides comfortable functions to the administration of the test schedules and measurements, in addition an efficient statistics module is integrated which allows exact evaluation of the examining data.

Note: Prerequisite for the operation of the software package is an installed DotNetFramework by Microsoft (possible from WIN 98 SE).

## Elabo Testsystems PC-Compact-Tester ACT65 (91-6G)

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The device offers connections on the rear panel for:

- Connection box, safety test cabinet, PE-test probe
- HV- warning-lamp unit, lamp indication
- Remote control / two hand control
- Ethernet interface for PC connection

Note: The connections are dependent of the equipment of your Compact-Tester.



Compact-Tester with digital displays

Usable for tests according:

- EN 60204-1 Safety of machinery - Electrical equipment of machines
- EN 60335-1 Safety of household and similar electrical appliances
- EN 60439-1 Low-voltage switchgear and control-gear assembly
- EN 60598-1 Luminaire
- EN 50144-1 Safety of hand-held electric motor operated tools
- EN 60950 Information technology equipment
- EN 61010-1 Safety requirements for electrical equipment for meas., control and lab. use
- EN 61029-1 Safety of transportable motor-operated electric tools
- EN 60065 Audio, video and similar electronic apparatus - Safety requirements
- VDE 0701-1 Repair, modification a. inspection of used household and similar electrical appl.
- VDE 0702 Repeat tests on electrical appliances

### Main specifications 91-6G:

Operation temperature: +10°C ... 45°C  
Mains: 230V - 5% / +10% 49 - 61Hz  
Supply test item: 0 ... 250V, 49-61Hz, max. 15A  
Dimensiones : without HVAC 19"/8HU depth 600 mm  
with HVAC 19"/12HU depth 600 mm  
Weigth: appr. 25 kg respectively 40 kg

Possible Tests:

#### Protective Earth conductor test (PE)

- Test current elec. stabilized: 10,15, 20, 25 A
- Test voltage: max. 10 V AC
- Measuring range 0 ... 350 mOhm / 0 ... 3,5 V
- Four wire measurement
- Cycle time: 10%, max.1,5 minutes
- Measuring inaccuracy: max. ± 1,5%

#### Insulation resistance test (IS)

- Test voltage with current limitation: 500 V / 1000V / adjustable 50 ... 1000 V DC
- Measuring range: 0,1 ... 10 / 100 / 1000 MOhm

#### High Voltage test (DC)

- Test voltage with current limitation: 0 ... 6000 V
- Test current: max. 5 mA
- Programmable voltage ramp
- Measuring inaccuracy: max. ± 2%

#### High Voltage test (AC)

- Test voltage: 0,1 ... 5000 V AC
- floating voltage
- Test current: max. 100 mA
- Programmable voltage ramp
- Melting time: < 50 ms
- Measuring inaccuracy: max. ± 2%

#### Leakage Current test (LC)

- Test voltage: max. 250 V AC (mains)
- Current range 100 µA, 1 mA, 10mA
- Measurement circuit according EN 60990 Bild 4
- Measuring inaccuracy: max. ± 1,5%

#### Resistance-/Continuity test (DG/R)

- Test voltage: >24 V DC
- Range 5 ... 5000 Ohm
- Measuring inaccuracy max. ± 5%

#### Current-, Voltage-, Power measurement (P)

- Voltage 230 V AC (mains)
- Current up to 16 A
- Active power up to 3,6 kW + cosPhi
- Measuring inaccuracy: max. ± 2%

#### Resistance test (R)

- 8 ranges 0.2 Ohm ... 2 MOhm
- Measurement current 100 mA ... 1 µA
- Four wire measurement
- Measuring inaccuracy: max. ± 0,2%

**Note:** The indicated measuring inaccuracies related to full scale of the ranges. Caused by the A/D converter, it is necessary to add ± 0.5% to all measuring inaccuracies.

Reserve of technical changes, further development and improvements.

### Ordering details

PC-Compact-Tester basic module/system wiring inclusive Software 95-9B Z91-6G  
Module PE-test (PE conductor): 0 ... 350 mOhm;10 V;10/15/20/25 A  
Module ISO-test (insulation resistance): 50 ... 1000 V DC; 0 ... 10/100/1000 MOhm  
Module HC/AC-test (high voltage): 0 ... 5000 V; 100 mA; floating voltage  
Module HV/DC-test (high voltage): 0 ... 6000 V; 5 mA  
Module R-test (resistance): 0,2 Ohm ... 2 MOhm (8 ranges)  
Module LC-test (leakage current): 100 µA, 1 mA, 10 mA according EN 60990 illustr. 4  
Module P-test (power consumption): 230 V; 16 A  
Module DG/R-test (continuity/resistance): 24 V ; 5 ... 5000 Ohm  
Module Mains switching unit for LC and P testing  
Special variants and modules with different voltages, test currents etc. on request.

### Catalog No.

91-6G Z  
91-6G OPTION-01  
91-6G OPTION-02  
91-6G OPTION-03  
91-6G OPTION-04  
91-6G OPTION-05  
91-6G OPTION-06  
91-6G OPTION-07  
91-6G OPTION-08  
91-6G OPTION-17