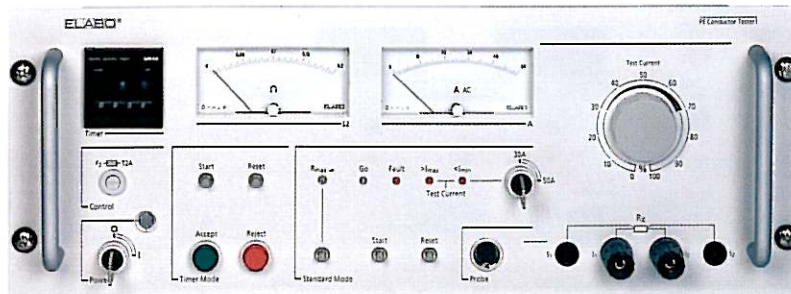


PE conductor Tester 0–50 A/AC

Product Group

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2GA27 90-2C

With Class I equipment one of the most important tests is the integrity of the protective earth conductor connection. The regulations state that the resistance of the connection between the PE terminal or contact of the equipment's plug and the parts to be connected with the PE conductor must not exceed a given limit value.

The PE conductor tester 90-2... is suitable for testing PE connections according to different international norms like: EN 60335-1, EN 60601-1-1.

From an AC source with a no-load voltage of maximal 12 V a current, between 10 A and 50 A, depending on the regulation, is applied between the PE terminal or contact of the equipment's plug and every touchable metal part in turn.

The resistance is then calculated from the current and the voltage measured between the PE terminal or contact of the equipment's plug and the touchable metal parts.

The required test current can be set steplessly with model 90-..., and the method of measurement employed ensures that the value of resistance is calculated from the current and voltage.

The result is shown on an analogue instrument for the duration of test. A second display indicates continuously the test current.

The item on test is connected to two laboratory-type sockets. There are also two further lab terminals for using probe leads for the compensation of feeder and contact resistance.

The maximal permissible resistance "Rmax" can be set by a hidden fitted potentiometer. If this value is exceeded during the measurement a visual fault alarm is given (a red light signal "Reject") otherwise a green LED "Accept" lights up. The required testing time is set by a timer unit.

The tester also monitors the minimal and maximal permissible test current. Deviations are monitored by LED's.

In order to prevent sticking of contacts and the measuring points on the item being tested, the test current will not start flowing before the "Start" button at the test unit or the test probe has been pressed.

The tester is in the form of a 19" / 4 HU plug-in module. Thus it is possible to use it as a stand-alone unit (by using an appropriate housing), or it can be integrated into a 19" rack.

ORDERING DATA

PE conductor tester, measurement current 10 ... 50 A	2GA27 90-2C
19" module housing 6HU, 390 mm deep	2GA27 93-1B
Test probe with start button, for test current up to 50 A	2GA27 94-4R

- Adjustable test current 0 ... 50 A/AC
- Adjustable resistance limit value
- Range 0 ... 200 mΩ
- Evaluation by analog divider
- Timer operation 1 sec ... 99 min
- Test according to VDE, EN, IEC
- Optional feature:
Interface RS232/IEEE
- Plug-in module 19" / 4 HU