ELECTRICAL TESTER

PCE-IT 150



- **15 kV insulation tester**
- **Insulation resistance up to 30 TΩ**
- **Polarisation index PI**
- **Dielectric absorption ratio DAR**
- **4 buttons for test voltage**
- **Memory for 200 measured values**
- **incl. software**

The electrical tester is designed for insulation measurements with a test voltage of up to 15 kV. The measuring range from 0 ... 30 TΩ and other measuring functions make the tester versatile. With 4 quick selection buttons for common test voltages and the option of setting the voltage in 500 V steps. Pre-configured diagnostic tests, including (PI), dielectric absorption ratio (DAR) and a memory function for 200 measurements. These can be transferred to the software via the interface, which also enables the insulation measuring device to be operated. The electrical tester can also be used to measure AC and DC voltages up to 600 V. The electrical tester is supplied in a robust case that offers IP66 protection even when the lid is closed.

In the course of its normal service life, electrical insulation is exposed to various stresses that lead to its deterioration. This is caused by thermal, mechanical and chemical influences as well as moisture. Although the insulation is designed to withstand these stresses over many years, abnormal stresses can intensify the natural ageing process and drastically shorten the service life. It is therefore advisable to regularly check whether an accelerated ageing process is taking place and, if necessary, to determine whether the effects are reversible.

Specification

Direct voltage DC	
Measuring range	30 ... 600 V
Resolution	1 V
Accuracy	±(2.0% of Rd +3 digits)
AC voltage	
Measuring range	30 ... 600 V
Resolution	1 V
Accuracy	±(2.0% of Rd +3 digits)
Insulation resistance	
Measuring range	0 ... 1 GΩ
Resolution	0,001 GΩ
Accuracy	±(5% of Rd +5 digits)
Insulation resistance	
Measuring range	1 ... 10 GΩ
Resolution	0,01 GΩ
Accuracy	±(5% of Rd +5 digits) M Ω
Insulation resistance	
Measuring range	10 ... 100 GΩ
Resolution	0,1 GΩ
Accuracy	±(5% of Rd +5 digits)
Insulation resistance	
Measuring range	100 GΩ ... 1 TΩ
Resolution	1 GΩ
Accuracy	±(5% of Rd +5 digits)
Insulation resistance	
Measuring range	1 ... 10 TΩ
Resolution	10 GΩ
Accuracy	±20%
Insulation resistance	
Measuring range	10 ... 30 TΩ
Resolution	100 GΩ
Accuracy	±20%

General technical data	
Measuring functions	HOLD, PI, DAR
Display type	LCD
Storage medium	Internal memory
Storage capacity	200 Measurements
Interface	RS232
Automatic power-off	5 min
Test voltage	500 V ... 15 kV
Safety standard	CAT IV 600V
Menu language	English
Protection class (device)	IP66
Protection class (additional information)	only when the lid is closed
Power supply	100 ... 240 V | 50/60 Hz
Connector type	Device-europlug
Capacity	5200 mAh
Operating conditions	0 ... 40 °C , 0 ... 80 % RH
Storage conditions	0 ... 40 °C , 0 ... 80 % RH
Dimensions (L x W x H)	325 x 430 x 132 mm
Weight	6362 g