

System Example Household Appliances



- PC controlled test system
- test scope:
 - continuity test
 - protective conductor test
 - high voltage test
 - insulation resistance test
 - line leakage test
 - current consumption test



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The test system shown serves to test washing machines. It is the last stage in production where the DUTs are transported forwarded on a conveyor belt.

The test is started manually. First the DUT is contacted via different pneumatic contacts at the housing. Then the automatic test run begins with measuring first the protective conductor resistance between power plug and the different PE points at the housing. To do so a current between 10 and 30 AAC can be chosen.

Next is the insulation resistance test. Same is usually performed between L+N (bridged) and PE at the power supply of the DUT. It is, however, also possible to test the insulation resistance of different insulated points of the DUT, which are started with pneumatic contact pins, against any of the points (also against each other).

Even with the high voltage test the different points can be cut in. This allows the complete testing of all contactable parts.

The line leakage test is performed at the activated device with the option to perform the test according to methods A1, A2 and B.

A very important test as to function is the current consumption test. During operation a current consumption together with an optical function control can supply unmistakable results on the correct function of the DUT.

Upon request different tests made to your specification are possible. An option for electric ranges would be the temperature measurement. More respective examples are: measurement of number of revolutions, gas flow measurement, compressed air measurement, etc.

Technique:

- PC with easy, menu-driven WINDOWS surface
- protective conductor test 10 up to 30 AAC
- insulation resistance test 500 VDC
- high voltage test 6000 VDC max.
- line leakage test
- current consumption test

upon request more different tests are possible

