

MTS1

AUTOMATED ENERGY METER TEST STATION

MTS1 is fully automated computer controlled system intended for simultaneous calibration and testing up to twenty single or three-phase meters.

MTS1 consists of:

- PC running under Windows operating system, which makes user interface, database of measured results, and station mastering.
- Control unit, which realizes PC, demands by communication with six electronic power sources, reference standard, and twenty error calculators.
- Power sources: three for L1, L2, L3 voltages, and three for L1, L2, L3 currents. Fully electronic power sources include six sine wave generators and six electronic power-switching amplifiers. All power sources are supplied by single-phase electric mains 230V/20A/50 or 60Hz without mains stabilizer.
- Reference digital multifunctional standard meter for active and reactive energy.
- Error calculators measuring accuracy of meter under test with error indicators placed at each of twenty meters position.
- Suspension rack with twenty places for connection of tested meters.

All components of MTS1 system are intelligent and exchange data over internal communication BUS.

Automated meter test and calibration station MTS1 provides reliable and fast meter calibration and certification independently on operator training. This is very important for efficient and productive meter testing in production as well as in exploitation.

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