



AsTest CONTROL SOFTWARE

- ❑ Fully compatible with IEC, MID, INMETRO, ANSI, JJG and other standards
- ❑ Exceptional flexibility and easy operation
- ❑ Integration with production and traceability systems
- ❑ Automatic and manual modes of testing
- ❑ Automatic creation of verification reports, exporting to TXT, Excel or other individual data types
- ❑ All types of meters and test definitions are included in the software libraries
- ❑ Multiple language versions
- ❑ Compatibility with protocols: IEC 62056-21 (old IEC 1107), DLMS, EDL, MODBUS, DL/T 645 and others on request
- ❑ ONE-BUTTON mode for production volumes

INTRODUCTION

AsTest control software is designed to enable the calibration and verification of energy meters on the ASTeL meter test equipment. Built-in features permit efficient service of various types of meters, as well as advanced data management. The parametrical libraries within AsTest software minimize the need to create new definitions. Assorted data visualizations provide notification of current system events on an ongoing basis. Intuitive graphic design and user friendly visualization of the testing processes makes working with AsTest control software straightforward.

WIZARD

The entire measuring process is controlled through the Session Wizard, which even for a beginner, enables a quick and efficient passage through the whole process of calibration and verification.

ONE-BUTTON OPERATOR MODE

For production volumes, an extremely simplified operational mode is available – only one button is sufficient for an operator to perform the full testing process.

VISUALIZATION

The testing process is accompanied by a comprehensive set of visualization tools such as tests results, accuracy trends, panel meters, vector graphs, waveform curves, harmonics display etc.

LIBRARIES

Correct software operation requires the definition of meter types, test types and additional parameters, all saved and organized in database libraries. Thanks to an innovative approach in the database structure design, filling them is extremely easy and intuitive.

METERS LIBRARY

Allows to define utility and reference meters. Utility ones, form simple inductive up to complicated multi-energy/tariff and smart meters. Reference ones, form simple with constants table up to fully controlled through their communication port.

TESTS LIBRARY

Built-in library of tests offers standard tests like accuracy, dosage, starting current or no-load, but also many special tests for checking functionalities of meters (e.g. registers, profiles, ripple, dips and interruption), automatic calibration, remote control of the ASTeL system, commissioning, collaboration with the factory's traceability

systems and other. All tests are reusable which means that the same test definition could be used for testing different types of meters.

SEQUENCES LIBRARY

Sequence is a flexible set of tests and can be run in automatic, semiautomatic, manual or a single test mode.

USERS

Software offers wide range of task oriented user definitions.

OTHER LIBRARIES

Libraries cover not only meters/tests/sequences definitions, but also waveforms, dips, interruptions, ripple telegrams, etc.

REPORTS

Feature-rich standard and user defined reports are an integral part of the software.

DATA EXPORT

Export is available to standard forms like TXT, Excel files or any other requested format or database.

ARCHIVE

All data related to the process of verification and/or calibration can be archived: data from meters, definitions of the tests performed and detailed results of each test. The archive can be searched according to data category: by date, type, serial number, producer, person performing verification, customer, etc. It is also possible to generate reports or export results from archived data.

TESTING REFERENCE/PORTABLE STANDARDS

The software enables fully automatic testing of reference and portable standards, without the necessity of taking manual action by the operator.

COMMISSIONING

Calibration of the ASTeL meter test equipment can be performed by means of any reference meter available on the market. The process can be carried out in fully automatic mode.

SCRIPTING

Extension of the system functionality is possible by means of scripts written in VBScript or JScript.

CUSTOMIZATION

To meet the actual requirements and adapt to the habits of customers, the software can be accordingly altered on request.

Parameter	Value
Operating System	Windows® XP, 7, 8, 10 32/64bit
Language	English, Spanish, Portuguese, French, German, Polish, Russian, Chinese ⁽¹⁾
Standards compatibility	IEC, ANSI, MID, INMETRO, ANSI, JJG ⁽²⁾
Integration with production systems (automatic lines)	Yes
Integration with factory traceability systems (FIS)	Yes
Remote control	Yes, meters adjusting/calibration can be controlled remotely
Meters' protocols	Native: IEC 62056-21 (1107), DLMS, EDL, MODBUS, DL/T 645. Ready for other by external tools/scripts.
Backup recovery	Yes
Working on common database	Yes, all installed meter test systems can use one common database
Control of external reference and portable standard	Yes Fully automatic maintenance

(1) Further language versions are under development.

(2) Further standards compatibility are under development or available on request.

For additional technical details, please contact our sales department (sales@metertest.eu)

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METERTEST

MeterTest Sp. z o.o. | Lukasinskiego St. 26 b. 21, 58-100, Swidnica, Poland



meter-test-equipment.com



+48 74 856 63 92



sales@metertest.eu