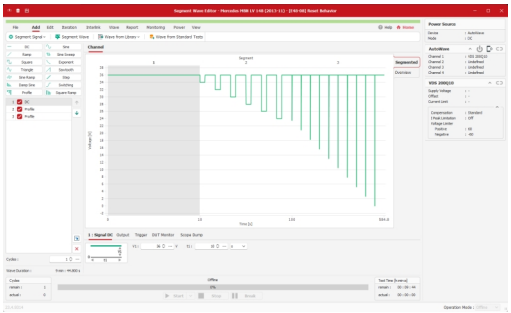
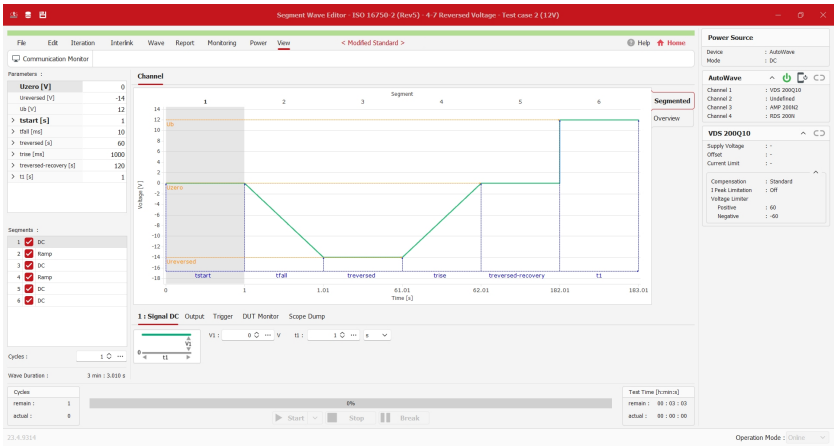


CTS Automotive Low Voltage
Compliance Test Studio

Compliance Test Studio 23 for Automotive Low Voltage Testing simplifies EMC and robustness tests on automotive component and electrical sub-assemblies (ESA). It gets the most out of AMETEK CTS low voltage automotive test systems and generators. The extensive standards library includes pre-programmed tests which makes you focus on testing and not programming. It is the ideal tool for compliance testing as well as tests part of the product development or validation process.

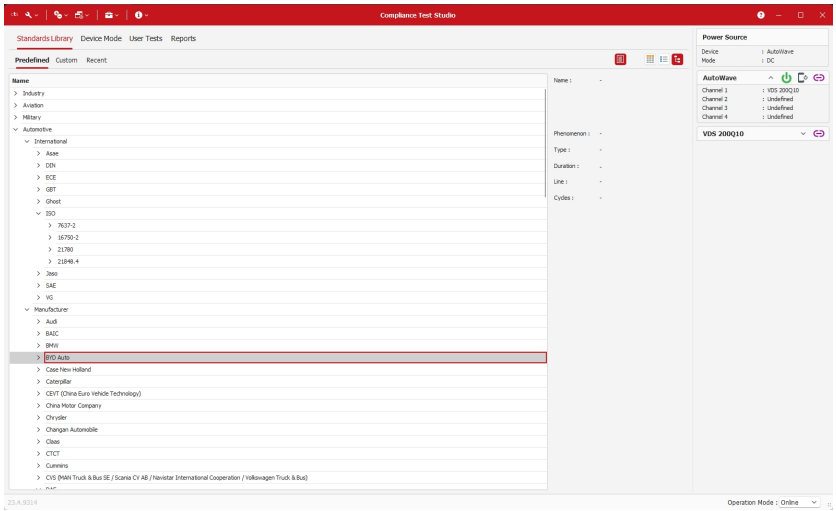
MAIN FEATURES

- **Automotive low voltage standards testing**
- **ISO 16750, ISO 21780, ISO 7637-2, ECE-R10**
- **LV124, VW 80000, GS 950xx, FMC 1280, GM 3172 any many more**
- **Large library with 9000+ pre-programmed tests**
- **Easy generation of comprehensive test reports**
- **Integration of external instruments**



Efficient testing with Standards Library

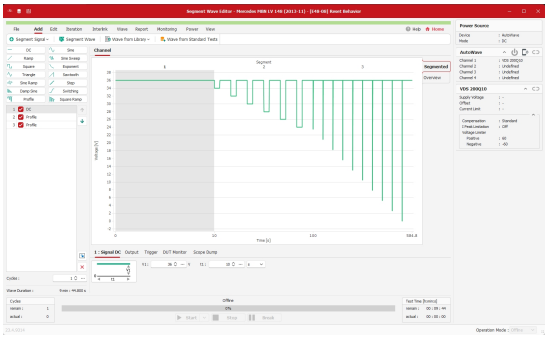
The extensive standards library includes more than 9'000 pre-programmed tests.



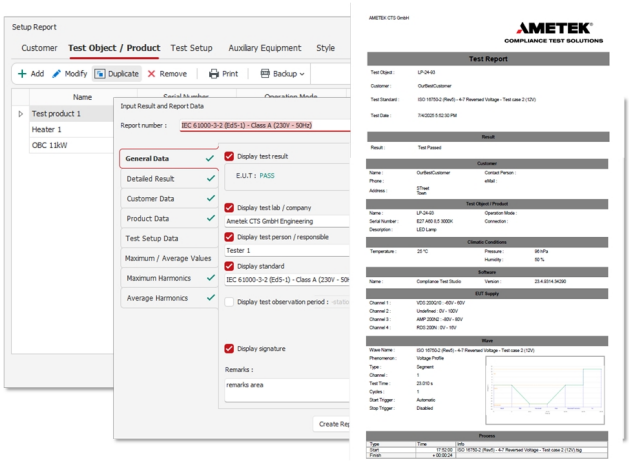
Test coverage includes LV battery supply line variations (AutoWave, VDS 200, RDS 200N), interrupts on power and datalines (PFM 200N) as well as ripple and magnetic field testing (AMP 200N2).

AMETEK CTS experts actively follow and participate in international standardization work. This ensures that always the latest changes are implemented and newest versions of standards are available. Updates are regularly released to keep track with changes in standards, methods or test conditions.

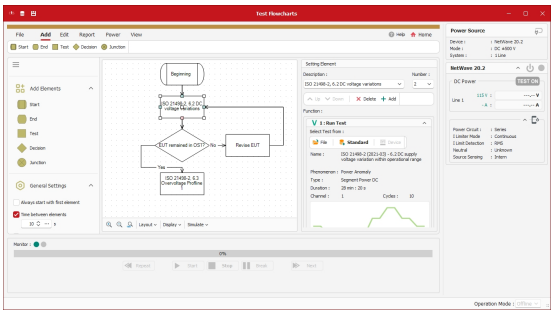
Main Features and Functions



The Waveform Editor allows easy programming of various DC voltage variations. Use the pre-programmed waveforms from the Standards Library, customize it to your needs or program a custom waveform based on the available segments (ramps, transitions, distortion, sweeps etc.). The waveform is changed by modifying the segment parameters which are documented in the integrated help.
Arbitrary waveforms can be loaded and played through CSV files generated by external software (e.g. Microsoft Excel™, Matlab™, etc.).



Documentation is a required and important step in automotive testing. Compliance Test Studio supports with various functions for report generation: add customer information, test object data, test setup pictures and additional information. With the report editor the report content can be customized to create a meaningful report. Customize the test report template to include your company logo and address. Monitoring measurements and print screens of external instruments can also be added.
It is also possible to save the report within the Compliance Test Studio and reopen to modify. The report can be exported in various file formats which allows further processing and integration in overall test reports.



CTS.ExtFunctions license provides additional helpful tools to increase efficiency. Additional external instruments (e.g. multimeters, oscilloscopes, etc.) can be integrated and controlled by Compliance Test Studio software for monitoring and documentation of the applied signal and the EUT condition. The Link Test functions allows to compose complete test plans based on Standards Library and customized tests, combined with measurements from external instruments or react on EUT states via triggers. At the end, a combined test report for the complete test plan is created.

Available Licenses

License	Description
CTS.DeviceAutoWave	Enables the "device" mode to remotely control the AutoWave (and connected VDS 200x, PFM 200N, AMP 200N and SNG 200P) to program user tests
CTS.Automotive-INTL	Library with pre-programmed tests for automotive international standards (e.g. ISO), valid for all licensed devices within one system
CTS.Automotive-MFR	Library with pre-programmed tests for automotive OEM/manufacturer standards (e.g. Stellantis, Volkswagen, Mercedes, etc.), special licenses for Nissan and Renault on request, valid for all licensed devices within one system
CTS.FastSwitch	License for CTS to enable standard test library for micro interrupts and GMW 3172, test 9.2.18
CTS.ExtFunction	Extended features including report, link, flowchart, measuring instruments, iteration, interlink, import and export of test data , requires a device license
CTS.ExtSources	License to control external sources with AutoWave (by analog signal)

Supported Devices

Models	AutoWave, VDS 200N, VDS 200Q, PFM 200N, AMP 200N, SNG 200P