

OMICRON Test Universe users benefit from a wide range of powerful software options. Various packages contain a selection of test modules that are function-oriented and can operate either on a stand-alone basis or can be embedded in test plans for fully automated testing. Additional software modules for special applications complete the range.

Software/Modules

		Software Packages					
		Basic	Protection	Advanced Protection	Meter	Measurement	Universal
		Ba	Pr	AP	Me	Mt	Un
<i>QuickCMC</i>	Quick and easy PC controlled manual testing	✓	✓	✓	✓	✓	✓
<i>State Sequencer</i>	Determining operating times and logical timing relations by state-based sequences	✓	✓	✓			✓
<i>Ramping</i>	Determining magnitude, phase, and frequency thresholds by ramping definitions	✓	✓	✓			✓
<i>TransPlay</i>	Playback of COMTRADE files, recording of binary input status	✓	✓	✓	✓	✓	✓
<i>Harmonics</i>	Generation of signals with superimposed harmonics	✓	✓	✓	✓	✓	✓
<i>Binary I/O Monitor</i>	Status display of all binary inputs and outputs of the test setup	✓	✓	✓	✓	✓	✓
<i>CB Simulation</i>	Module for setting the CB simulation with the CMC 356 or CMC 256plus	✓	✓	✓	✓	✓	✓
<i>Polarity Checker</i>	Checks correct wiring along with the CPOL hardware	✓	✓	✓	✓	✓	✓
<i>AuxDC</i>	Setting of the auxiliary DC supply of a CMC 356 or CMC 256plus	✓	✓	✓	✓	✓	✓
<i>Pulse Ramping</i>	Determining magnitude, phase, and frequency thresholds by pulse ramping definitions		✓	✓			✓
<i>Overcurrent</i>	Automatic testing of positive/negative/zero sequence overcurrent characteristics		✓	✓			✓
<i>Overcurrent Char. Grabber</i>	Extracts overcurrent inverse-time characteristics from data sheet		✓	✓			✓
<i>Distance</i>	Impedance element evaluations using single-shot definitions in the Z-plane		✓	✓			✓
<i>Differential</i>	Single-phase tests of the operating characteristic and the inrush blocking of differential relays		✓	✓			✓
<i>Autoreclosure</i>	Testing of the autoreclosure function with integral fault model		✓	✓			✓
<i>Advanced Distance</i>	Impedance element evaluations using automatic testing modes			✓			✓
<i>VI Starting</i>	Testing of the voltage dependent overcurrent starting function of distance relays			✓			✓
<i>Advanced Differential</i>	Comprehensive three-phase differential relay testing			✓			✓
<i>Annunciation Checker</i>	Verifying the correct marshalling and wiring of protection devices			✓			✓
<i>Synchronizer</i>	Automatic testing of synchronizing devices and synchro-check relays			✓			✓
<i>Transient Ground Fault</i>	Simulation of steady state and transient ground-faults in isolated or compensated networks			✓			✓
<i>Advanced TransPlay</i>	Playback and processing of COMTRADE, PL4, or CSV files			✓			✓
<i>Meter</i>	Testing of single and multifunction energy meters				✓	✓	✓
<i>Transducer</i>	Testing of all kinds of measurement transducers					✓	✓
<i>Control Center Package</i>	Automation tool, document-oriented test plan, template and report form. Including OMICRON Control Center (OCC), Pause Module, ExeCute, TextView, CM Engine		✓	✓		✓	✓

Additional Software

<i>NetSim</i>	Network simulator for relay testing under real life conditions
<i>EnerLyzer™</i>	Analog measurements and transient recording with the CMC 356 or CMC 256plus
<i>TransView</i>	Transient signal analysis for COMTRADE files
<i>PQ Signal Generator</i>	Simulation of power quality phenomena according to IEC 61000-4-30

Scheme Testing Tools

<i>CommPro</i>	Testing and training tool for communication based logic schemes in transmission line protection
<i>LogicPro</i>	Testing and training tool for non-communication based logic schemes in transmission line protection
<i>DLogicPro</i>	Testing and training tool for distribution logic schemes

IEC 61850 Testing Tools

<i>GOOSE</i>	Testing with GOOSE according to IEC 61850
<i>Sampled Values</i>	Testing with Sampled Values (SV) according to IEC 61850-9-2 ("9-2 LE")
<i>IEDScout</i>	Universal software tool for working with IEC 61850 IEDs
<i>SVScout</i>	Visualizing IEC 61850 Sampled Values and testing of merging units

OMICRON's Test Universe software 2.4 is tested to be compliant to the following versions of Microsoft Windows: Windows XP (32 bit/x86), Windows Vista (32 bit/x86), Windows 7 (32 bit/x86 and 64 bit)