Software Overview

OMICRON

OMICRON customers benefit from a wide range of powerful software options. Various packages contain a selection of Test Universe 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. Software for special applications complete the range.

OMICRON offers the flexibility to expand orders of standard packages with selected, optional individual modules. This makes it possible to create the optimum solution for every requirement and every budget. Individual modules can also be retrofitted at a later date.

Software Packages		Basic	Protection	Advanced Protection	Recloser	Meter (Me)	Measurement (Mt)	Universal
Software / Modules		Ba	Pr	AP	Re	Me	Mt	Un
QuickCMC	Quick and easy PC controlled manual testing	■	■	■	■	■	■	■
State Sequencer	Determining operating times and logical timing relations by state-based sequences	■	■	■	■	□	□	■
Ramping	Determining magnitude, phase, and frequency thresholds by ramping definitions	■	■	■	■	□	□	■
TransPlay	Playback of COMTRADE files, recording of binary input status	■	■	■	■	■	■	■
Harmonics	Generation of signals with superimposed harmonics	■	■	■	■	■	■	■
Binary I/O Monitor	Status display of all binary inputs and outputs of the test setup	■	■	■	■	■	■	■
CB Configuration	Module for setting the CB simulation	■	■	■	■	■	■	■
AuxDC Configuration	Setting of the auxiliary DC supply	■	■	■	■	■	■	■
ISIO Connect Tool	Control of up to three ISIO 200 units to extend the standard I/Os	■	■	■	■	■	■	■
Polarity Checker	Wiring check using the optional CPOL hardware	■	■	■	■	■	■	■
Pulse Ramping	Determining magnitude, phase, and frequency thresholds by pulse ramping definitions	□	■	■	■	□	□	■
Overcurrent	Automatic testing of positive/negative/zero sequence overcurrent characteristics	□	■	■	■	□	□	■
Overcurrent Char. Grabber	Extraction of overcurrent inverse-time characteristics from data sheet	□	■	■	■	□	□	■
Distance	Impedance element evaluations using single-shot definitions in the Z-plane	□	■	■	□	□	□	■
Single-Phase Differential	Single-phase tests of the operating characteristic and the inrush blocking of differential relays	□	■	■	□	□	□	■
Autoreclosure	Testing of the autoreclosure function with integral fault model	□	■	■	□	□	□	■
Advanced Distance	Impedance element evaluations using automatic testing modes	□	□	■	□	□	□	■
VI Starting	Testing of the voltage dependent overcurrent starting function of distance relays	□	□	■	□	□	□	■
Advanced Differential	Comprehensive three-phase differential relay testing	□	□	■	□	□	□	■
Annunciation Checker	Verification of the correct marshalling and wiring of protection devices	□	□	■	□	□	□	■
Synchronizer	Automatic testing of synchronizing devices and synchro-check relays	□	□	■	□	□	□	■
Transient Ground Fault	Simulation of steady state and transient ground-faults in isolated or compensated networks	□	□	■	□	□	□	■
Advanced TransPlay	Playback and processing of COMTRADE, PL4, or CSV files	□	□	■	□	□	□	■
Meter	Testing of single and multifunction energy meters	□	□	□	□	■	■	■
Transducer	Testing of measurement transducers	□	□	□	□	□	■	■
Control Center Package	Automation tool, document-oriented test plan, template and report form. Including OMICRON Control Center (OCC), Pause Module, ExeCute, TextView, CM Engine	□	■	■	■	□	■	■
Additional Software								
NetSim	Network simulator for relay testing under real life conditions	□	□	□	□	□	□	□
EnerLyzer™	Analog measurements and transient recording with the CMC 356 or CMC 256plus	□	□	□	□	□	□	□
TransView	Transient signal analysis for COMTRADE files	□	□	□	□	□	□	□
PQ Signal Generator	Simulation of power quality phenomena according to IEC 61000-4-30 and IEC 62586	□	□	□	□	□	□	□
IEC 61850 Testing Tools								
GOOSE	Testing with GOOSE according to IEC 61850	□	□	□	□	□	□	□
Sampled Values	Testing with Sampled Values (SV) according to IEC 61850-9-2 (“9-2 LE”)	□	□	□	□	□	□	□
IEC 61850 Client/Server	Automatic SCADA testing in accordance with IEC 61850	□	□	□	□	□	□	□
IEDScout	Universal software tool for working with IEC 61850 IEDs	□	□	□	□	□	□	□
SVScout	Visualizing IEC 61850 Sampled Values and testing of merging units	□	□	□	□	□	□	□

OMICRON’s Test Universe software 3.0 is tested to be compliant to the following versions of Microsoft Windows:
Windows XP (32 bit), Windows 7 (32 bit and 64 bit), Windows 8/8.1 (32 bit and 64 bit), Windows 10 (32 bit and 64 bit)

■ Package component
□ Optionally available