Test Universe Package Overview



For the combination of CMC test sets (CMC 356, CMC 256plus, CMC 430 and CMC 353) and Test Universe software, four different packages as well as optional add-ons are offered, which are tailored to diverse focal points of use. Each of these packages contains a selection of software modules that can be either used independently from each other for single tests or be embedded into test plans for automated testing:

Essential		offers a good introduction with basic functions and modules; can serve as a base for custom compiled packages			Packages			Add-ons			
Standard		contains all modules that are typically used for settings-based testing of protection devices							D	eq	
Enhanced		like Standard, specifically extended by functions for system-based testing and transient simulation as well as for free programming							Measurement Equipment Testing	IEC 61850 Basic IEC 61850 Advanced	
Complete		covers all functions and software modules that are offered for controlling CMC test sets			ard	peou	lete		urem men	850	
Ар	ackage ca	an be extended at an	y time by ordering additional single modules or optional add-ons.	Essential	Standard	Enhanced	Complete		Measurement Equipment Te	IEC 61850 Basic IEC 61850 Adva	
	OMICRON Control Center ¹		Automation tool, document-oriented test plan, template and report form								7
	QuickCMC		Convenient manual testing in the Test Universe environment								
	State Sequencer		Determining operating times and logical timing relations by state-based sequences]
	TransPlay		Playback of COMTRADE files, recording of binary input status								1
	Harmonics		Generation of signals with superimposed harmonics								1
	CB Configuration		Module for setting the CB simulation								1
	Ramping		Determining magnitude, phase, and frequency thresholds by ramping definitions								1
	Pulse Ramping		Determining magnitude, phase, and frequency thresholds by ramping definitions								1
	Overcurrent ²		Automatic testing of positive/negative/zero sequence overcurrent characteristics								1
	Distance		Impedance element evaluations using single-shot definitions in the Z-plane								1
les	Advanced Distance		Impedance element evaluations using automatic testing modes								1
npo	VI Starting		Testing of the voltage dependent overcurrent starting function of distance relays								1
rse mo	Autoreclosure		Testing of the autoreclosure function with integral fault model								1
	Single-Phase Differential		Single-phase tests of the operating characteristic and the inrush blocking								1
ive	Advanced Differential		Comprehensive three-phase differential relay testing (four modules)								1
Test Universe modules	Annunciation Checker		Verification of the correct marshalling and wiring of protection devices								1
	Power		Testing with visualization and assessment in the P-Q plane (basic)								1
	Advanced Power		Testing with visualization and assessment in the P-Q plane (enhanced)								1
	Advanced TransPlay		Playback and processing of COMTRADE, PL4, or CSV files								1
	Transient Ground Fault ³		Simulation of ground-faults in isolated or compensated networks								1
	Synchronizer		Automatic testing of synchronizing devices and synchro-check relays								1
	Meter		Testing of single and multifunction energy meters								1
	Transducer		Testing of measurement transducers								1
	PQ Signal Generator		Simulation of power quality phenomena according to IEC 61000-4-30 and IEC 62586								1
	IEC 61850 Client/Server		Automatic SCADA testing in accordance with IEC 61850								1
	GOOSE Configuration		Testing with GOOSE according to IEC 61850								1
	Sampled Values Configuration		Testing with Sampled Values according to IEC 61850-9-2 ("9-2 LE") and IEC 61869-9								1
Additional tools	CMControl P App		Quick and easy manual testing of protection and measurement devices		T	Ī					1
	RelaySimTest ³		System-based protection testing by simulating realistic power system events		_	Ī					1
	Adv. Transformer Features		Advanced transformer features for differential protection in RelaySimTest								
	CMEngine		Programming interface for controlling CMC test sets with user specific software		_	Ī		\forall			1
	EnerLyzer Live		Analog measurements and transient recording with CMC test sets		_	-		\forall			1
	TransView		Transient signal analysis for COMTRADE files		_	_		\forall			1
	ADMO light ⁴		Asset and maintenance management for protection systems		Ī	Ť		+			1
	IEDScout		Universal software tool for working with IEC 61850 IEDs		-	-	_	+			+
	LUSCOUL		Chiversal software tool for working with the O1050 files								╛

Contained in all packages: Binary I/O Monitor, AuxDC Configuration, ISIO Connect (for ISIO 200), Polarity Checker (for CPOL2).

¹ Includes licenses for Pause Module, ExeCute, TextView

² Includes license for Overcurrent Characteristics Grabber

 $^{^{\}scriptscriptstyle 3}\,$ RelaySimTest license also includes the licenses for Transient Ground Fault and NetSim

⁴ ADMO light is limited to 50 assets but can be upgraded to a full ADMO version at any time