



CMC 353

Ordering Information

Ordering instructions

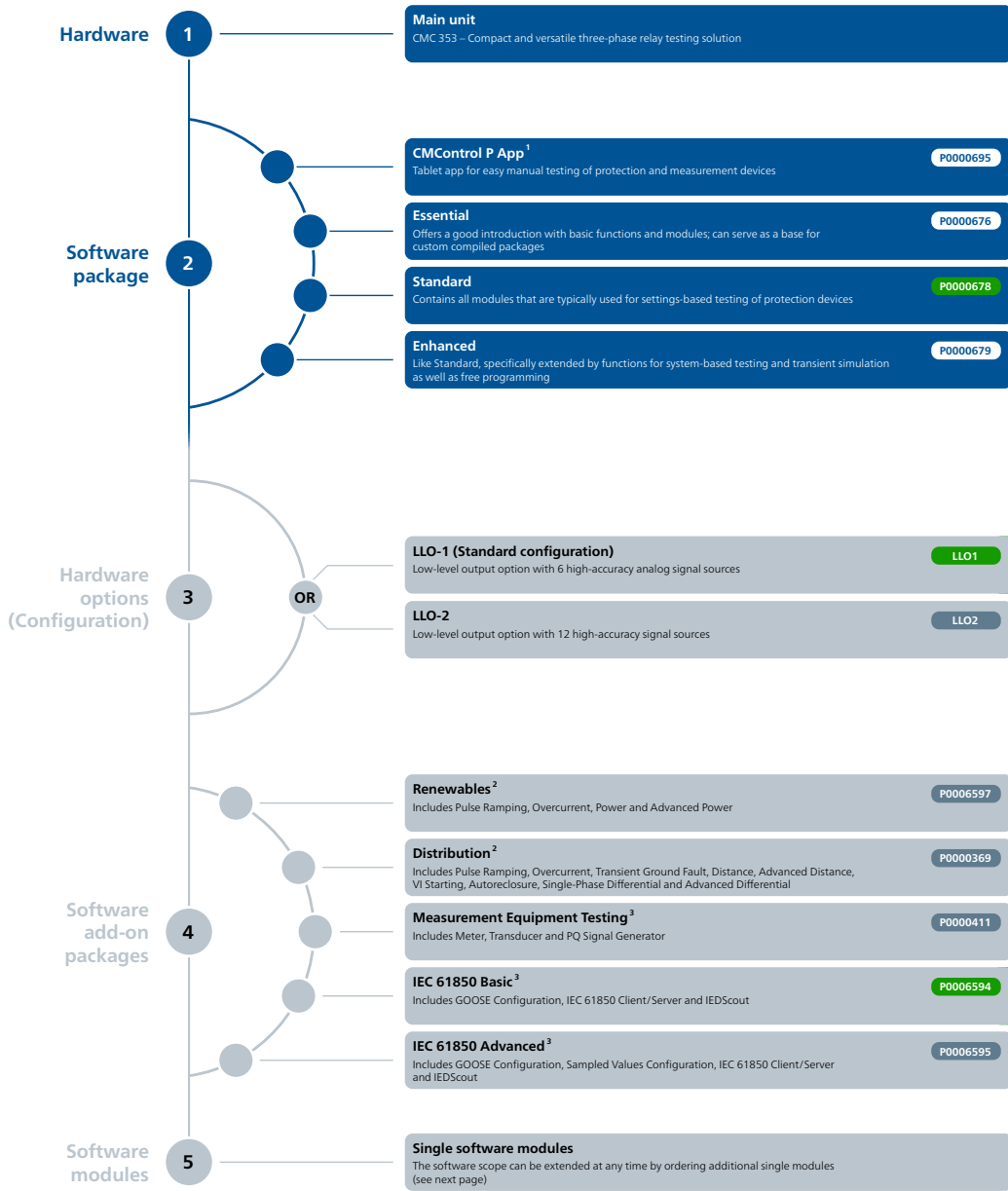
Step 1: Hardware
The CMC 353 is the main hardware unit of your choice.

Step 2: Software package
Choose 1 of 4 software packages according to your needs. This is considered the basis for the software scope and can be extended in steps 4 and 5 at any time.

Step 3: Hardware options
Choose between LLO-1 being the standard configuration, and LLO-2 to extend the capabilities.

Step 4: Software add-on packages
Choose from a set of software add-on packages tailored to a specific application or use-case. This step is optional.

Step 5: Software modules
Choose individual software modules in addition to the selected software packages in steps 2 and 4. On the next page you will find a complete overview of all available modules. This step is also optional.



Example order number

CMC package	Hardware options	Order No. (Configuration)
CMC 353 Standard	LLO-1	P0000678 LLO1
CMC software add-on packages		Order No.
IEC 61850 Basic		P0006594

¹ Also available on a dedicated front panel control device (order No. P0005871)
² Selectable for Essential Software Package
³ Selectable for Essential, Standard, and Enhanced Software Package

Software modules	Order No.	Description	Software packages		
			Essential	Standard	Enhanced
OMICRON Control Center		Automation tool, document-oriented test plan, template and report form	✓	✓	✓
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	✓	✓	✓
Harmonics		Generation of signals with superimposed harmonics	✓	✓	✓
CB Configuration		Module for setting the CB simulation	✓	✓	✓
Ramping		Determining magnitude, phase, and frequency thresholds by ramping definitions	✓	✓	✓
Pulse Ramping	P0006818	Determining magnitude, phase, and frequency thresholds by pulse ramping definitions	○	✓	✓
CMControl P App	P0000344	Quick and easy manual testing of protection and measurement devices	○	✓	✓
Overcurrent	P0006821	Automatic testing of positive/negative/zero sequence overcurrent characteristics	○	✓	✓
Distance	P0006816	Impedance element evaluations using single-shot definitions in the Z-plane	○	✓	✓
Advanced Distance ¹	P0006591	Impedance element evaluations using automatic testing modes	○	✓	✓
VI Starting	P0006820	Testing of the voltage dependent overcurrent starting function of distance relays	○	✓	✓
Autoreclosure	P0006819	Testing of the autoreclosure function with integral fault model	○	✓	✓
Single-Phase Differential	P0006824	Single-phase tests of the operating characteristic and the inrush blocking	○	✓	✓
Advanced Differential ¹	P0000296	Comprehensive three-phase differential relay testing (four modules)	○	✓	✓
Annunciation Checker	P0006830	Verification of the correct marshalling and wiring of protection devices	○	✓	✓
Power	P0006835	Testing with visualization and assessment in the P-Q plane (basic)	○	✓	✓
Advanced Power ¹	P0000341	Testing with visualization and assessment in the P-Q plane (enhanced)	○	✓	✓
Advanced TransPlay	P0006829	Playback and processing of COMTRADE, PL4, or CSV files	○	✓	✓
Transient Ground Fault	P0006823	Simulation of ground-faults in isolated or compensated networks	○	○	✓
Synchronizer	P0006822	Automatic testing of synchronizing devices and synchro-check relays	○	○	✓
CMEngine	P0006842	Programming interface for controlling CMC test sets with user specific software	○	○	✓
RelaySimTest ²	P0000367	System-based protection testing by simulating realistic power system events	○	○	✓
RelaySimTest Adv. Transformer Features	P0006853	Advanced transformer features for differential protection in RelaySimTest	○	○	○
RelaySimTest Motor Features	P0008107	Motor features for asynchronous motor simulation in RelaySimTest	○	○	○
Meter	P0006841	Testing of single and multifunction energy meters	○	○	○
PQ Signal Generator	P0006832	Simulation of power quality phenomena according to IEC 61000-4-30 and IEC 62586	○	○	○
IEC 61850 Client/Server	P0006834	Automatic SCADA testing in accordance with IEC 61850	○	○	○
GOOSE Configuration	P0006831	Testing with GOOSE according to IEC 61850	○	○	○
Sampled Values Configuration	P0006833	Testing with Sampled Values according to IEC 61850-9-2 ("9-2 LE") and IEC 61869-9	○	○	○
TransView	P0006837	Transient signal analysis for COMTRADE files	○	○	○
IEDScout	P0006493	Universal software tool for working with IEC 61850 IEDs	○	○	○

Included in package
 Optionally available

¹ The Advanced modules include their basic counter parts (e.g. Advanced Power includes the Power Module)
² RelaySimTest license also includes the licenses for Transient Ground Fault and NetSim

Accessory	Order No.	Description
Wiring accessory package	B1764601	Various adapters for connecting test objects to CMC test sets
Generator combination cable		Three-phase connection between CMC test set and the test object
Yellow, green, violet, blue	B1328000	
Red, yellow, blue, black	B1328100	
Mini wireless USB adapter	E1636800	For wireless control of a CMC test set
Transport case	B0679500	Heavy-duty transport case with wheels and extendable handle for safe & easy transport and shipping
Trolley/Backpack	E1636000	Trolley / Backpack for simple mechanical protection
CMGPS 588	P0006433	GPS controlled time synchronization unit
CMIRIG-B	P0006386	Interface box for sending or receiving the IRIG-B protocol or PPS signals
TICRO 100	P0000604	IEEE1588/PTP time converter
OTMC 100p portable	P0006508	PTP grandmaster clock
EMCON 200	P0006504	PTP transparent Ethernet media converter
TWX1	P0006385	Testing traveling wave protection relays and fault locators
CPOL2	P0006331	Handheld polarity checker
CMLIB REF6xx	P0006379	Low level interface adapter for ABB Relion devices with sensor inputs
REF 54x cable connector	B0559600	Cable connector for ABB REF 54x devices with sensor inputs
CMLIB 75x8	P0006380	Low level interface adapter for Siemens Siprotec Compact devices with sensor inputs
CMLIB A	P0006378	Low level signal connector
Easergy cables ¹	B1734800	Adapter cables for Schneider Electric Easergy devices with sensor inputs
RIB1	P0006393	Low level isolation box
ISIO 200	P0006498	Binary I/O terminal
RXB1	P0006392	Binary output extension
CMTAC 1	P0006278	Rectifier to use AC trigger signals
SER1	P0006388	Scanning equipment for scanning the status indication LEDs of protection relays
CMS 356	P0001357	6-phase current and 4-phase voltage amplifier
VBO3	P0006276	Three-phase voltage transformer for up to 600 V (L-N)
ARC 256x	P0006279	Arc flash initiator for testing arc flash protection systems
SEM 1	P0006391	Scanning head for testing meters with optical pulse output
SEM 2	P0006390	Scanning head for testing meters with rotating disc or optical pulse output
SEM 3	P0006389	Magnetic scanning head for testing meters with optical pulse output
CMLIB B	P0006377	For tests with reference meters and to access the binary transistor outputs

Step 6: Accessories

In the last step, you can choose from a large number of basic accessories and others, tailored to a specific application or use-case. This step is optional, but recommended to get the full potential of the solution.

Accessories

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¹ Requires CMLIB A