

HIGH VOLTAGE CABLE TESTERS Accessories List

SYNOR5000-H_A	<p>HIGH VOLTAGE CABLE TESTER MASTER; enclosure - height 7U Includes: Central unit (generation and measurement). On/Off and emergency stop panel. 2- and 4-wire continuity, 2- and 4-wire resistance, 2- and 4-wire diode, component measurement (resistance, diode, capacitor in DC). DC hipot and insulation (if option ref. SY5000-HVDC ordered). AC hipot (if option ref. SY5000-HVAC ordered). Winpass5000 software. 1 touch probe. 1x 19" rack with 16 available switching card slots (the switching cards have to be ordered apart); for more boards, see ref. SYNOR5000-HS or ask for other available configurations. One crossed Ethernet cable 1.8m. Requires a PC with one available Ethernet port. All the available switching boards can be mixed in each rack</p>
SYNOR5000-HX	<p>HIGH VOLTAGE CABLE TESTER MASTER/SLAVE; enclosure - height 7U Includes: Central unit (generation and measurement). On/Off and emergency stop panel. 2- and 4-wire continuity, 2- and 4-wire resistance, 2- and 4-wire diode, component measurement (resistance, diode, capacitor in DC). DC hipot and insulation (if option ref. SY5000-HVDC ordered). AC hipot (if option ref. SY5000-HVAC ordered). Winpass5000 software. 1 touch probe. 1x 19" rack with 16 available switching card slots (the switching cards have to be ordered apart); for more boards, see ref. SYNOR5000-HS or ask for other available configurations. One crossed Ethernet cable 1.8m. Requires a PC with one available Ethernet port. All the available switching boards can be mixed in each rack</p>
SYNOR5000-P_A	<p>HIGH VOLTAGE CABLE TESTER; unit - height 3U Includes: Central unit (generation and measurement). On/Off and emergency stop. 2- and 4-wire continuity, 2- and 4-wire resistance, 2- and 4-wire diode, component measurement (resistance, diode, capacitor in DC). DC hipot and insulation (if option ref. SY5000-HVDC ordered). AC hipot (if option ref. SY5000-HVAC ordered). Winpass5000 software. 1 touch probe. 1x 19" rack with 3 available switching card slots (the switching cards have to be ordered apart); for more boards, see ref. SYNOR5000-RS or ask for other available configurations. One crossed Ethernet cable 1.8m. Requires a PC with one available Ethernet port. All the available switching boards can be mixed in each rack</p>

SYNOR5000-R_A	<p>HIGH VOLTAGE CABLE TESTER; rack - height 6U</p> <p>Includes: Central unit (generation and measurement). 2- and 4-wire continuity, 2- and 4-wire resistance, 2- and 4-wire diode, component measurement (resistance, diode, capacitor in DC). DC hipot and insulation (if option ref. SY5000-HVDC ordered). AC hipot (if option ref. SY5000-HVAC ordered). Winpass5000 software. 1 touch probe. 1x 19" rack with 16 available switching card slots (the switching cards have to be ordered apart); for more boards, see ref. SYNOR5000-RS or ask for other available configurations. One crossed Ethernet cable 1.8m.</p> <p>Requires a PC with one available Ethernet port.</p> <p>All the available switching boards can be mixed in each rack</p>
SYNOR5000-RX	<p>HIGH VOLTAGE CABLE TESTER MASTER/SLAVE; enclosure - height 7U</p> <p>Includes: Central unit (generation and measurement). On/Off and emergency stop panel. 2- and 4-wire continuity, 2- and 4-wire resistance, 2- and 4-wire diode, component measurement (resistance, diode, capacitor in DC). DC hipot and insulation (if option ref. SY5000-HVDC ordered). AC hipot (if option ref. SY5000-HVAC ordered). Winpass5000 software. 1 touch probe. 1x 19" rack with 16 available switching card slots (the switching cards have to be ordered apart); for more boards, see ref. SYNOR5000-HS or ask for other available configurations. One crossed Ethernet cable 1.8m.</p> <p>Requires a PC with one available Ethernet port.</p> <p>All the available switching boards can be mixed in each rack</p>
SYNOR5000-C	<p>HIGH VOLTAGE CABLE TESTER; cabinet - from 18U to 36U</p> <p>Includes: 1x 19" cabinet which can include several racks (ref. SYNOR5000-R and SYNOR5000-RS) or unit (ref. SYNOR5000-P and SYNOR5000-RS) with switching card slots (the switching cards have to be ordered apart); ask for available configurations. On/Off and emergency stop panel.</p> <p>Requires a PC with one available Ethernet port.</p> <p>All the available switching boards can be mixed in each rack.</p> <p>HAS TO BE ORDERED WITH ONE MAIN RACK OR UNIT (Ref. SYNOR5000-R or SYNOR5000-P) IN ORDER TO GET A CENTRAL UNIT (GENERATION AND MEASUREMENT) INSIDE</p>

SYNOR5000-D_A	<p>HIGH VOLTAGE CABLE TESTER; composite enclosure type - height 7U</p> <p>Includes: Central unit (generation and measurement). 2- and 4-wire continuity, 2- and 4-wire resistance, 2- and 4-wire diode, component measurement (resistance, diode, capacitor in DC). DC hipot and insulation (if option ref. SY5000-HVDC ordered). AC hipot (if option ref. SY5000-HVAC ordered). Winpass5000 software. 1 touch probe. 1x 19" rack with 16 available switching card slots (the switching cards have to be ordered apart); for more boards, see ref. SYNOR5000-DS or ask for other available configurations. One crossed Ethernet cable 1.8m.</p> <p>Requires a PC with one available Ethernet port.</p> <p>All the available switching boards can be mixed in each rack</p>
SYNOR5000-DX	<p>HIGH VOLTAGE CABLE TESTER MASTER/SLAVE; enclosure - height 7U</p> <p>Includes: Central unit (generation and measurement). On/Off and emergency stop panel. 2- and 4-wire continuity, 2- and 4-wire resistance, 2- and 4-wire diode, component measurement (resistance, diode, capacitor in DC). DC hipot and insulation (if option ref. SY5000-HVDC ordered). AC hipot (if option ref. SY5000-HVAC ordered). Winpass5000 software. 1 touch probe. 1x 19 rack with 16 available switching card slots (the switching cards have to be ordered apart); for more boards, see ref. SYNOR5000-HS or ask for other available configurations. One crossed Ethernet cable 1.8m.</p> <p>Requires a PC with one available Ethernet port.</p> <p>All the available switching boards can be mixed in each rack</p>

All switching and stimuli cards below can be mixed together in the tester, at any place. Available quantities in steps of 1...16, 17...32, 33...50,

Switching Cards, Stimuli and Mixed Test/Stimuli Cards

Switching cards	
SY5000-M128A5A	500VDC (if option SY5000-HVDC)/350VAC (if option SY5000-HVAC)/2A switching card - 128 points
SY5000-M64A15	1500VDC (if option SY5000-HVDC)/1000VAC (if option SY5000-HVAC)/2A switching card - 64 points
SY5000-M64A20C	2000VDC (if option SY5000-HVDC)/1500VAC (if option SY5000-HVAC)/2A switching card - 64 points
SY5000-M128A10A	1000VDC (if option SY5000-HVDC)/750VAC (if option SY5000-HVAC)/2A switching card - 128 points
SY5000-M22A20	2000VDC (if option SY5000-HVDC)/1500VAC (if option SY5000-HVAC)/10A switching card - 22 points
SY5000-M32A30	3000VDC /2000VAC /2A switching card - 32 points ; requires SY5000-XS-VHV option + a XS equipement
SY5000-M24A42A	4200VDC /3000VAC /2A switching card - 24 points ; requires SY5000-XS-VHV option + a XS equipement
SY5000-M8A55	5500VDC /4000VAC /2A switching card - 8 points ; requires SY5000-XS-VHV option + a XS equipement
Stimuli cards	

SY5000-S22A20	2000VDC /1500VAC /10 A stimuli card - 22 channels and common. 2 variable power supplies can be driven independently
SY5000-S32A15	1500VDC /1000VAC /5 A stimuli card - 32 channels and common. 2 variable power supplies can be driven independently
SY5000-MS32A15	1500VDC /1000VAC /2A (test)/5A (stimuli) mixed test/stimuli card - 32 points

Extension Racks and Cabinets

SYNOR5000-HS_A	7U metallic extension with enclosure, 19", 18 slots
SYNOR5000-RS_A	6U metallic extension rack without enclosure, 19", 18 slots
SYNOR5000-DS_A	7U composite extension distributed module, 19", 18 slots

Generators, Measuring Options

SY5000-HVDC_B	DC hipot and insulation module from 20VDC to 2121VDC, internal to the SYNOR5000
SY5000-HVAC	AC hipot module from 50VAC to 1500VAC 10 mA 50/60Hz, internal to the SYNOR5000; has to be ordered with ref. SY5000-HVDC
SY5000-FLT	Floating low voltage measurement for continuity module, internal to the SYNOR5000
SY5000-TEMP/HUM	External temperature and humidity measurement
SY5000-GMOV	Avalanche breakdown voltage measurement for GMOV (peak limiter circuit) ; max. 200V/1A
SY5000-GMOV100	Avalanche breakdown voltage measurement for GMOV (peak limiter circuit) ; max. 100V/3A
SY5000-GMOV1kV	Avalanche breakdown voltage measurement for GMOV (peak limiter circuit) ; max. 1000V/1A
SY5000-LEAK	Leakage current measurement for transorbs (transient voltage suppression diode) under max. 200V ; has to go with option ref. GMOV
SY5000-LEAK100	Leakage current measurement for transorbs (transient voltage suppression diode) under max. 100V ; has to go with option ref. GMOV
SY5000-LEAK1K	Leakage current measurement for transorbs (transient voltage suppression diode) under max. 1000V ; has to go with option ref. GMOV
SY5000-CONT28V	Continuity measurement under 28VDC instead of 20VDC

External Power Supplies for Stimuli Cards

SY5000-PCR500	540W: 0...270VAC /2A or 0...380VDC /2A, 3U height external power supply for stimuli cards
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Interconnection Cables

Signal transmission cables, measuring bus, power supplies, energy. These cables are designed to work in rough environment: Ringed sheathed	
SY5000-CBL0.8M	0.8m interconnection cable, in between central unit and distributed module, or in between distributed module and other distributed modules
SY5000-CBL2.5M	2.5m interconnection cable, in between central unit and distributed module, or in between distributed module and other distributed modules
SY5000-CBL5M	5m interconnection cable, in between central unit and distributed module, or in between distributed module and other distributed modules
SY5000-CBL10M	10m interconnection cable, in between central unit and distributed module, or in between distributed module and other distributed modules
SY5000-CBL15M	15m interconnection cable, in between central unit and distributed module, or in between distributed module and other distributed modules
SY5000-CBL20M	20m interconnection cable, in between central unit and distributed module, or in between distributed module and other distributed modules

Connections for External Device and Interfaces

SY5000-MGR10	I/O connection for MGR10 microhm-meter, including connection cables (needs to be ordered, if an MGR10 is included in the tester)
SY5000-M1501P	I/O connection for M1501 series megohm-meter, including connection cables (needs to be ordered, if an M1501 is included in the tester)
SY5000-XS	I/O connection for XS equipment ($U < 2000VDC / 1500VAC$, $I < 10mA$), including connection cables (needs to be ordered, if an XS is included in the tester)
SY5000-XSVHV	I/O connection for XS equipment ($U > 2000VDC / 1500VAC$), including connection cables (needs to be ordered, if an XS is included in the tester)
SY5000-AUX	I/O connection for universal equipment ($U < 2000VDC / 1500VAC$, $I < 2A$)

SY5000-STI	I/O connection for STIMULI power supply (I<10A)
SY5000-OUT10V	I/O connection in 0...10V in order to drive some external equipment
SY5000-STDA	Black box (autonomous mode) ; tester does not need a PC to run; test file is stored into internal memory ; external devices (XS, MGR10, ...) cannot be controlled in this autonomous mode
SY5000-RLC	I/O connexion for RLC bridge (needs to be ordered if an RLC bridge is included in the tester)

Computer Setups

SY5000-DESKTOP*	Desktop PC including central unit, display, keyboard and mouse
SY5000-LAPTOP*	Laptop PC
SY5000-RACKPC1*	2U rackable central unit with desktop display, keyboard, mouse
SY5000-RACKPC2*	2U rackable central unit and 1U rackable keyboard with desktop display
SY5000-RACKPC3*	2U rackable central unit and 1U rackable keyboard, rackable display
SY5000-PCINTEGR	Control, validation, winpass installation on a customer PC and integration into 5000C cabinet for rackable versions, see minimum required setup
SY5000-BARCODE	Bar code reader for Winpass 5000
SY5000-INKJET	Inkjet colour printer
SY5000-LASERN&B	Black and white laser printer
* chose OS language and add letter-code at the end of the reference: F(french), G(english), D(german), R(russian)	

External Accessories, Options and Other Softwares

SY5000-PROBE	Additional touch probe
SY5000-LIGHTS	Red/green column light with magnetic socket
WINTRANSFERT (+SYWINTRANSFERT)	File transformer from excel format to Winpass format
SY5000-CLIM	6U height 19" rackable air conditioning system for SYNOR5000C
KRXS	19" rack mounting adaptation for 3U

Interface cables and mating connectors

SYINT-1x8-2	1 interface cable 8 wires from 1x POSITRONIC to free end (loosing wires), for ref. SY5000-M8A55 switching boards; length 2m
SYINT-1x8-5	1 interface cable 8 wires from 1x POSITRONIC to free end (loosing wires), for ref. SY5000-M8A55 switching boards; length 5m
SYINT-1x11-2	1 interface cable 11 wires from 1x DIN41612 to free end (loosing wires), for ref. SY5000-M22A20, SY5000-S22A20 boards; length 2m
SYINT-1x12-5	1 interface cable 12 wires from 1x DIN41612 to free end (loosing wires), for ref. SY5000-M24A42 switching board; length 5m
SYINT-2x12-2	1 interface cable 12 wires from 2x DIN41612 to free end (loosing wires), for ref. SY5000-M24A42 switching board; length 2m
SYINT-1x16-2	1 interface cable 16 wires from 1x DIN41612 to free end (loosing wires), for ref. SY5000-M32A30 switching board; length 2m
SYINT-1x16-5	1 interface cable 16 wires from 1x DIN41612 to free end (loosing wires), for ref. SY5000-M32A30 switching board; length 5m
SYINT-2x16-2	1 interface cable 16 wires from 2x DIN41612 to free end (loosing wires), for ref. SY5000-M32A30 switching board; length 2m
SYINT-2x16-5	1 interface cable 16 wires from 2x DIN41612 to free end (loosing wires), for ref. SY5000-M32A30 switching board; length 5m
SYINT-1x32-2	1 interface cables 32 wires from 1x DIN41612 to free end (loosing wires), for ref. SY5000-M64A10/SY5000-M64A20B/SY5000-M64A15, switching board; length 2m
SYINT-1x32-5	1 interface cable 32 wires from 1x DIN41612 to free end (loosing wires), for ref. SY5000-M64A10/SY5000-M64A20B/SY5000-M64A15, switching board; length 5m
SYINT-2x32-2	1 interface cables 32 wires from 2x DIN41612 to free end (loosing wires), for ref. SY5000-M64A10/SY5000-M64A20B/SY5000-M64A15, switching board; length 2m
SYINT-2x32-5	1 interface cable 32 wires from 2x DIN41612 to free end (loosing wires), for ref. SY5000-M64A10/SY5000-M64A20B/SY5000-M64A15, switching board; length 5m
SYINT-1x64-2	1 interface cable 64 wires from 1x DIN41612 to free end (loosing wires), for ref. SY5000-M128A5A/SY5000-M128A10 switching board; length 2m
SYINT-1x64-5	1 interface cable 64 wires from 1x DIN41612 to free end (loosing wires), for ref. SY5000-M128A5/SY5000-M128A10 switching board; length 5m

SYINT-2x64-2	1 interface cable 64 wires from 2x DIN41612 to free end (loosing wires), for ref. SY5000-M128A5A/SY5000-M128A10 switching board; length 2m
SYINT-2x64-5	1 interface cable 64 wires from 2x DIN41612 to free end (loosing wires), for ref. SY5000-M128A5/SY5000-M128A10 switching board; length 5m
SYDIN-32	32 points DIN41612 male mating connector with hood to connect on tester outputs; this connector is for ref. SY5000-M64A10/SY5000-M64A20A/B/SY5000-M64A15, board type; (minimum order quantity: 10)
SYDIN-16	16 points DIN41612 male mating connector with hood to connect on tester outputs; this connector is for ref. SY5000-M32A30/MS32A20 board type; (minimum order quantity: 10)
SYDIN-12	12 points DIN41612 male mating connector with hood to connect on tester outputs; this connector is for ref. SY5000-M24A42 board type; (minimum order quantity: 10)
SYDIN-11	11 points DIN41612 male mating connector with hood to connect on tester outputs; this connector is for ref. SY5000-M22A20/SY5000-S22A20 board type; (minimum order quantity: 10)
SYPOS-08	8 points POSITRONIC male mating connector with hood to connect on tester outputs; this connector is for ref. SY5000-M8A55 board type; (minimum order quantity: 10)
SYDIN-64	64 points DIN41612 male mating connector with hood to connect on tester outputs; this connector is for ref. SY5000-M128A5A/SY5000-M128A10 board type; (minimum order quantity: 10)
SY5000-CAISSE	Wooden packing crate for SYNOR5000C
SY5000-TRBOX	Wooden packing crate for SYNOR5000H & R

Calibration kit

SY5000-CAL	Automatic calibration kit, calibration and reporting program file
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Spare part kit

SY5000-P-SPARE	<p>Spare part* kit for SYNOR5000-P including: 1x low voltage measurement board (ref. SYSE0770). 1x high voltage measurement board (SY5000-HVDC, ref. SYSE0672). 1x interface board (ref. SYSE0771). 1x backpanel board 5 slots (ref. SYSE0876). 1x power supply 24V/8A (ref. PDZA0399). 1x power supply 5V/3A, 2x 15V/1A (ref. PDZA0076). 1x transformer 230V/1750V (ref. PETR 3391). 1x box of 10 fuses 5x 20 10AT (ref. PRFU 0006).</p> <p>* The spare part kit is delivered with a data measurement for LV and HV measurement board.</p>
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SY5000-R-SPARE	Spare part* kit for SYNOR5000-R including: 1x low voltage measurement board (ref. SYSE0770). 1x high voltage measurement board (SY5000-HVDC, ref. SYSE0672). 1x interface board (ref. SYSE0771). 1x backpanel board 18 slots (ref. SYSE0772). 1x power supply 28V/18A, 5V/2A, 2x 15V/1A (ref. PDZA0381). 1x transformer 230V/1750 V (ref. PETR 3391). 1x box of 10 fuses 5x 20 8AT (ref. PRFU 0005). * The spare part kit is delivered with a data measurement for LV and HV measurement board.
SY5000-AC-SPARE	Spare part* kit for SYNOR5000-P/H/R (when HVAC option is ordered) including: 1x high voltage measurement board (SY5000-HVAC, ref. SYSE0774). 1x transformer 30V/1500V (ref. PETR 0199). * The spare part kit is delivered with a data measurement for the HV measurement board.

Safety Panel for Integration

SY5000-B1UFAV	1U front safety panel with On/Off and emergency button plus lights. Typically used for integrating a SYNOR5000R into a cabinet. The safety panel is delivered with 2m of wires for the connections. SEFELEC advises to order the reference SY5000-B2UFAR together with SY5000-B1UFAV.
SY5000-B2UFAR	2U rear panel for industrial filtered mains input and interlocks. Typically used for integrating a SYNOR5000R into a cabinet. The safety panel is delivered with 2m of wires for the connections. SEFELEC advises to order the reference SY5000-B1UFAV together with SY5000- B2UFAR.

SERVICES

TRAINING-EXPORT	on request
EG2	2 years warranty (1 year basic warranty and 1 year extension). Only for SYNOR5000P w/o calibration on request for all others units
EG3	2 years warranty (1 year basic warranty and 1 year extension). Only for SYNOR5000P w/o calibration on request for all others units

CALIBRATION/METROLOGY

RMT	For SYNOR ranges. ISO EN 10012 report with factory calibration data records (if you need uncertainty, see ref. ++CCOFRAC)
CCOFRAC	ISO 17025 calibration certificate (includes uncertainty)
TRACE	Certificates of each equipment, calibration tools used to calibrate the equipment