

THE NEW INS SERIES

# Impulse Insulation Testers from 500 V to 30 kV

Preliminary version 2.2.

EMC PARTNER reserves the right to change content and technical characteristics of products at any time without prior notification.



### Accredited Calibration

Quality at EMC PARTNER is based on an ISO 9001 management system. This is the foundation for an ISO 17025 accreditation verified by the Swiss Calibration Service (SCS). SCS No. 146 is the accreditation number of EMC PARTNER AG. Locally accredited but recognized worldwide through affiliation with the ILAC organization.



## MANY OPTIONS ONE CHOICE

The new INS series from EMC PARTNER is another ground-breaking advance in insulation technology. With impulse repetition rates of 1 pulse per second up to 3.5 kV, and 1 pulse per 8 seconds at 30 kV, INS is probably the fastest insulation test system in the world.

The new INS test systems represent a flexible, high performance, high precision and highly reliable solution. Request a quotation now!

Already have an INS test system and want to add functions after purchase?  
Ask for details: [sales@emc-partner.ch](mailto:sales@emc-partner.ch)

ABSOLUTELY AMAZING!

# THE NEW INS SERIES



## A flexible offer

Optimal models corresponding to normative test levels up to 7.5 kV, 15 kV, 22.5 kV or 30 kV. The 7.5 kV model can be subsequently upgraded to 15 kV and the 22.5 kV model can be upgraded to 30 kV. Output impedance can be selected in the range 40  $\Omega$  - 4 k $\Omega$  (default 40  $\Omega$ ).

## Superior component technology

Impulse capacitors have an expected lifetime of 6 million cycles declared by manufacturer. INS test system hence becomes an optimal solution for long duration production testing.

## Optimal personnel safety

Outputs of the generator are on top of the generator, allowing a safe manual control. Furthermore, a safety switch is always available on the front panel, while an additional remote (5 m cable included) safety switch can be optionally connected.

## Seamless test bench integrations

With its programmable bi-directional connectors, INS is ready for an optimal PLC integration.

## Unbeatable compactness

15 kV solution in standard 19" unit, 4 UH and 30 kV in 19" unit, 8 UH.

## Outstanding precision

The tolerance of impulse voltage is just  $\pm 3\%$  while measurement circuits offer a  $\pm 2\%$  tolerance. This level of performance allows the implementation of voltage and current integrals (available with OPT-INS-MEAS).

## Latest generation of accessories

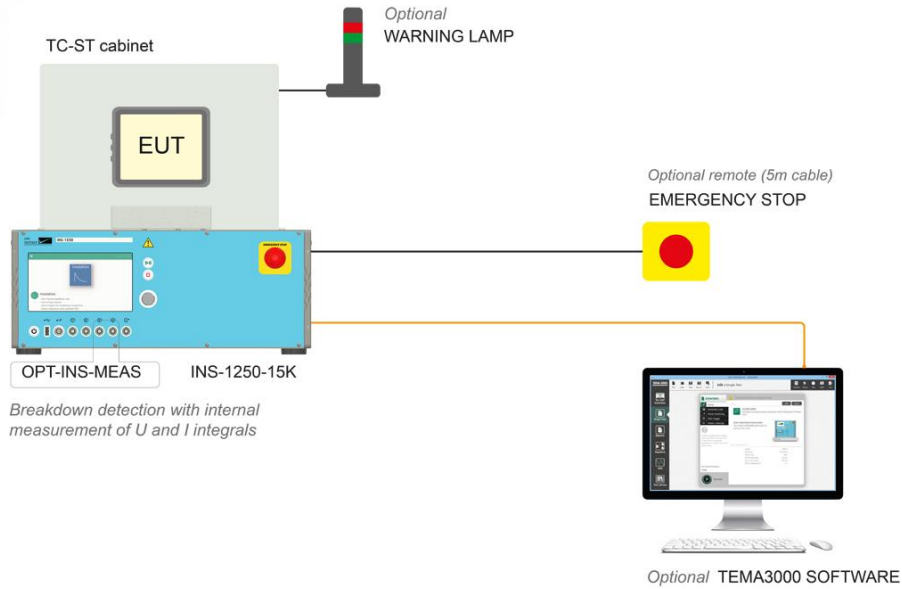
The 30 kV-proof test cabinet can be (optionally) placed up to 2 m away from the main generator and includes a reliable safety interlock circuit. The optional LED warning lamp complies to IEC 61140, VDE 0140-1. The 1 Gbps Ethernet port of the INS generator can be connected to a computer via an optional 10 m optical fibre.

## More functions with remote control

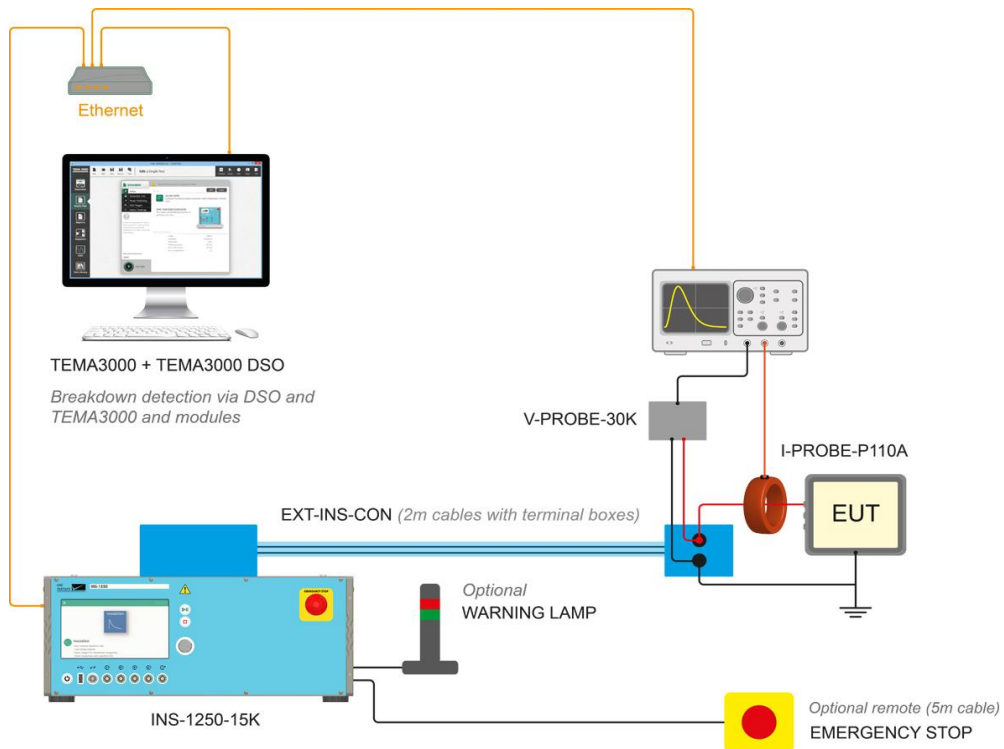
TEMA3000 software allows, among others, automatic DSO screenshots, automatic surveillance of waveform parameters, etc.

# TEST SETUP EXAMPLES

Test setup for small EUTs on top of the generator.



Test setup for small EUTs with calibrated waveform at 2m cable



# Technical specifications

# INS MODELS AND ACCESSORIES

## Generators

INS-1250-7K5	7.5 kV impulse 1.2/50 $\mu$ s, 40 $\Omega$ and/or custom output
INS-1250-15K	15 kV impulse 1.2/50 $\mu$ s, 40 $\Omega$ and/or custom output
INS-1250-22K5	22.5 kV impulse 1.2/50 $\mu$ s, 40 $\Omega$ and/or custom output
INS-1250-30K	30 kV impulse 1.2/50 $\mu$ s, 40 $\Omega$ and/or custom output
INS-0805	500 ohm output/ 0.5 J with 0.5 kV, 1 kV, 1.5 kV, 2 kV, 2.5 kV, 3 kV, 4 kV, 5 kV, 6 kV and 8 kV test levels

## Accessories

CN-INS-500	matching network 500 $\Omega$
CN-INS-X	custom matching network with any value in the range 40 $\Omega$ 4 k $\Omega$
OPT-INS-MEAS	measurement board for Upeak, Ipeak on display, BNC outputs for U and I waveforms monitor and U and I integral calc/display
V-PROBE-30K	30 kV common mode voltage monitor probe for INS-1250 series
EXT-INS-CON	2 m cables and terminal box for INS-1250
TC-ST	test cabinet with safety circuit mountable on top of generator
TC-ADAPTER	stand for TC-ST table-top mounting
WARNING LAMP	red/green signalization lamp
EMERGENCY STOP	remote emergency stop button with 5 m cable included

## INS-1250-7K5

### INS-1250-7K5 circuit: voltage impulse 1.2/50 $\mu$ s, 7.5 kV

<b>Standards</b>	IEC60060-1, IEC61010-1, IEC61180, IEC60335-1, IEC60664-1, latest editions
<b>Application</b>	test insulation against voltage impulse
<b>Impulse capacitance</b>	250 nF $\pm$ 20 %
<b>Energy at max. voltage</b>	7.03 joules
<b>Default output impedance</b>	40 $\Omega$ , additional impedances on request
<b>Adjust. voltage OC (&gt;10 M<math>\Omega</math>)</b>	200 V – 7.5 kV
<b>Calibrated level</b>	500 V – 7.5 kV $\pm$ 3 %
<b>Voltage waveform</b>	1.2 $\mu$ s $\pm$ 30 % / 50 $\mu$ s $\pm$ 20 %
<b>Waveform in tolerance for</b>	R > 1 k $\Omega$ L > 50 mH C < 6 nF
<b>SC current waveform</b>	not defined
<b>Pulse repetition</b>	up to 1 / 1 s @ 3.5 kV, 1 / 2 s @ 7.5 kV
<b>Polarity</b>	positive, negative, alternating

### INS-1250-7K5 control features

<b>User interface</b>	7" capacitive touch screen
<b>Processor, RAM</b>	Quad-core 1.2 GHz, 1 GB RAM
<b>Internal memory</b>	4 GB
<b>Communication interfaces</b>	Gigabit Ethernet, 2 x RS232, 2 x USB A
<b>Impulse counter</b>	programmable up to 29'999
<b>Trigger out</b>	BNC, max. 10 V on front panel
<b>Programmable BNCs</b>	4 programmable BNCs (2 front, 2 back)
<b>Input functions via BNC</b>	Start test, Stop test, EUT fail, EUT mark, External trigger in, Emergency stop
<b>Output functions via BNC</b>	Running state, Safety circuit state
<b>Emergency stop</b>	On front panel, standard red/yellow as in IEC 60947-5-5, IEC 60204-1, ISO 13850



## INS-1250-7K5 supply, weight, dimensions, climatic conditions

<b>Operating voltage</b>	100 – 240 V (50/60 Hz) ± 10%
<b>Power consumption</b>	ON < 150 VA, standby < 15 VA
<b>Weight</b>	approx. 24 kg
<b>W x d x h</b>	45 x 57 x 19 cm
<b>Version</b>	19" unit, 4 UH
<b>Temperature range</b>	10 – 35 °C
<b>Humidity</b>	< 80 % non-condensing
<b>Air pressure</b>	86 – 106 kPa
<b>Included articles</b>	
<b>Power cord</b>	with country plug
<b>EUT connection cables</b>	two 0.25 m cables with crocodile clips
<b>User manual</b>	with conformity declaration
<b>Calibration certificate</b>	factory calibration

## INS-1250-7K5 optional accessories

<b>500 Ω output impedance</b>	CN-INS-500 optional output impedance
<b>Custom output impedance</b>	CN-INS-X selectable impedance 40Ω - 4 kΩ
<b>Test cabinet</b>	TC-ST cabinet with safety circuit
<b>Table adapter for TC-ST</b>	TC-ADAPTER to mount TC-ST near generator
<b>2 m extension cable</b>	EXT-INS-CON extension cable with box
<b>Warning lamp</b>	WARNING-LAMP red/green
<b>Emergency stop button</b>	external EMRGENCY-STOP with 5m cable
<b>Measurement board</b>	OPT-INS-MEAS internal board for peak V, I.
<b>Voltage probe</b>	V-PROBE-30K optional voltage probe
<b>Software</b>	TEMA3000 with optional modules

## INS-1250-15K

### INS-1250-15K circuit: voltage impulse 1.2/50 $\mu$ s, 15 kV

<b>Standards</b>	IEC60060-1, IEC61010-1, IEC61180, IEC60335-1, IEC60664-1, latest editions
<b>Application</b>	test insulation against voltage impulse
<b>Impulse capacitance</b>	250 nF $\pm$ 20 %
<b>Energy at max. voltage</b>	28.12 joules
<b>Default output impedance</b>	40 $\Omega$ , additional impedances on request
<b>Adjust. voltage OC (&gt;10 M<math>\Omega</math>)</b>	400 V – 15 kV
<b>Calibrated level</b>	1 kV – 15 kV $\pm$ 3 %
<b>Voltage waveform</b>	1.2 $\mu$ s $\pm$ 30 % / 50 $\mu$ s $\pm$ 20 %
<b>Waveform in tolerance for</b>	R > 1 k $\Omega$ L > 50 mH C < 6 nF
<b>SC current waveform</b>	not defined
<b>Pulse repetition</b>	up to 1 / 1 s @ 3.5 kV, 1 / 4 s @ 15 kV
<b>Polarity</b>	positive, negative, alternating

### INS-1250-15K control features

<b>User interface</b>	7" capacitive touch screen
<b>Processor, RAM</b>	Quad-core 1.2 GHz, 1 GB RAM
<b>Internal memory</b>	4 GB
<b>Communication interfaces</b>	Gigabit Ethernet, 2 x RS232, 2 x USB A
<b>Impulse counter</b>	programmable up to 29'999
<b>Trigger out</b>	BNC, max. 10 V on front panel
<b>Programmable BNCs</b>	4 programmable BNCs (2 front, 2 back)
<b>Input functions via BNC</b>	Start test, Stop test, EUT fail, EUT mark, External trigger in, Emergency stop
<b>Output functions via BNC</b>	Running state, Safety circuit state
<b>Emergency stop</b>	On front panel, standard red/yellow as in IEC 60947-5-5, IEC 60204-1, ISO 13850

## INS-1250-15K supply, weight, dimensions, climatic conditions

<b>Operating voltage</b>	100 – 240 V (50/60 Hz) ± 10%
<b>Power consumption</b>	ON < 150 VA, standby < 15 VA
<b>Weight</b>	approx. 26 kg
<b>W x d x h</b>	45 x 57 x 19 cm
<b>Version</b>	19" unit, 4 UH
<b>Temperature range</b>	10 – 35 °C
<b>Humidity</b>	< 80 % non-condensing
<b>Air pressure</b>	86 – 106 kPa
<b>Included articles</b>	
<b>Power cord</b>	with country plug
<b>EUT connection cables</b>	two 0.25 m cables with crocodile clips
<b>User manual</b>	with conformity declaration
<b>Calibration certificate</b>	factory calibration

## INS-1250-15K optional accessories

<b>500 Ω output impedance</b>	CN-INS-500 optional output impedance
<b>Custom output impedance</b>	CN-INS-X selectable impedance 40Ω - 4 kΩ
<b>Test cabinet</b>	TC-ST cabinet with safety circuit
<b>Table adapter for TC-ST</b>	TC-ADAPTER to mount TC-ST near generator
<b>2 m extension cable</b>	EXT-INS-CON extension cable with box
<b>Warning lamp</b>	WARNING-LAMP red/green
<b>Emergency stop button</b>	external EMRGNCY-STOP with 5m cable
<b>Measurement board</b>	OPT-INS-MEAS internal board for peak V, I.
<b>Voltage probe</b>	V-PROBE-30K optional voltage probe
<b>Software</b>	TEMA3000 with optional modules

## INS-1250-22K5

### INS-1250-22K5 circuit: voltage impulse 1.2/50 $\mu$ s, 22.5 kV

<b>Standards</b>	IEC60060-1, IEC61010-1, IEC61180, IEC60335-1, IEC60664-1, latest editions
<b>Application</b>	test insulation against voltage impulse
<b>Impulse capacitance</b>	250 nF $\pm$ 20 %
<b>Energy at max. voltage</b>	63.28 joules
<b>Default output impedance</b>	40 $\Omega$ , additional impedances on request
<b>Adjust. voltage OC (&gt;10 M<math>\Omega</math>)</b>	600 V – 22.5 kV
<b>Calibrated level</b>	1.5 kV – 22.5 kV $\pm$ 3 %
<b>Voltage waveform</b>	1.2 $\mu$ s $\pm$ 30 % / 50 $\mu$ s $\pm$ 20 %
<b>Waveform in tolerance for</b>	R > 1 k $\Omega$ L > 50 mH C < 6 nF
<b>SC current waveform</b>	not defined
<b>Pulse repetition</b>	up to 1 / 1 s @ 3.5 kV, 1 / 6 s @ 22.5 kV
<b>Polarity</b>	positive, negative, alternating

### INS-1250-22K5 control features

<b>User interface</b>	7" capacitive touch screen
<b>Processor, RAM</b>	Quad-core 1.2 GHz, 1 GB RAM
<b>Internal memory</b>	4 GB
<b>Communication interfaces</b>	Gigabit Ethernet, 2 x RS232, 2 x USB A
<b>Impulse counter</b>	programmable up to 29'999
<b>Trigger out</b>	BNC, max. 10 V on front panel
<b>Programmable BNCs</b>	4 programmable BNCs (2 front, 2 back)
<b>Input functions via BNC</b>	Start test, Stop test, EUT fail, EUT mark, External trigger in, Emergency stop
<b>Output functions via BNC</b>	Running state, Safety circuit state
<b>Emergency stop</b>	On front panel, standard red/yellow as in IEC 60947-5-5, IEC 60204-1, ISO 13850

## INS-1250-22K5 supply, weight, dimensions, climatic conditions

<b>Operating voltage</b>	100 – 240 V (50/60 Hz) ± 10%
<b>Power consumption</b>	ON < 150 VA, standby < 15 VA
<b>Weight</b>	approx. 35 kg
<b>W x d x h</b>	45 x 57 x 43 cm
<b>Version</b>	19" unit, 4 UH
<b>Temperature range</b>	10 – 35 °C
<b>Humidity</b>	< 80 % non-condensing
<b>Air pressure</b>	86 – 106 kPa
<b>Included articles</b>	
<b>Power cord</b>	with country plug
<b>EUT connection cables</b>	two 0.25 m cables with crocodile clips
<b>User manual</b>	with conformity declaration
<b>Calibration certificate</b>	factory calibration

## INS-1250-22K5 optional accessories

<b>500 Ω output impedance</b>	CN-INS-500 optional output impedance
<b>Custom output impedance</b>	CN-INS-X selectable impedance 40 Ω - 4 kΩ
<b>Test cabinet</b>	TC-ST cabinet with safety circuit
<b>Table adapter for TC-ST</b>	TC-ADAPTER to mount TC-ST near generator
<b>2 m extension cable</b>	EXT-INS-CON extension cable with box
<b>Warning lamp</b>	WARNING-LAMP red/green
<b>Emergency stop button</b>	external EMRGNCY-STOP with 5m cable
<b>Measurement board</b>	OPT-INS-MEAS internal board for peak V, I.
<b>Voltage probe</b>	V-PROBE-30K optional voltage probe
<b>Software</b>	TEMA3000 with optional modules

## INS-1250-30K

### INS-1250-30K circuit: voltage impulse 1.2/50 $\mu$ s, 30 kV

<b>Standards</b>	IEC60060-1, IEC61010-1, IEC61180, IEC60335-1, IEC60664-1, latest editions
<b>Application</b>	test insulation against voltage impulse
<b>Impulse capacitance</b>	250 nF $\pm$ 20 %
<b>Energy at max. voltage</b>	112.5 joules
<b>Default output impedance</b>	40 $\Omega$ , additional impedances on request
<b>Adjust. voltage OC (&gt;10 M<math>\Omega</math>)</b>	800 V – 30 kV
<b>Calibrated level</b>	2 kV – 30 kV $\pm$ 3 %
<b>Voltage waveform</b>	1.2 $\mu$ s $\pm$ 30 % / 50 $\mu$ s $\pm$ 20 %
<b>Waveform in tolerance for</b>	R > 1 k $\Omega$ L > 50 mH C < 6 nF
<b>SC current waveform</b>	not defined
<b>Pulse repetition</b>	up to 1 / 1 s @ 3.5 kV, 1 / 8 s @ 30 kV
<b>Polarity</b>	positive, negative, alternating

### INS-1250-30K control features

<b>User interface</b>	7" capacitive touch screen
<b>Processor, RAM</b>	Quad-core 1.2 GHz, 1 GB RAM
<b>Internal memory</b>	4 GB
<b>Communication interfaces</b>	Gigabit Ethernet, 2 x RS232, 2 x USB A
<b>Impulse counter</b>	programmable up to 29'999
<b>Trigger out</b>	BNC, max. 10 V on front panel
<b>Programmable BNCs</b>	4 programmable BNCs (2 front, 2 back)
<b>Input functions via BNC</b>	Start test, Stop test, EUT fail, EUT mark, External trigger in, Emergency stop
<b>Output functions via BNC</b>	Running state, Safety circuit state
<b>Emergency stop</b>	On front panel, standard red/yellow as in IEC 60947-5-5, IEC 60204-1, ISO 13850

## INS-1250-30K supply, weight, dimensions, climatic conditions

<b>Operating voltage</b>	100 – 240 V (50/60 Hz) ± 10%
<b>Power consumption</b>	ON < 150 VA, standby < 15 VA
<b>Weight</b>	approx. 40 kg
<b>W x d x h</b>	45 x 57 x 19 cm
<b>Version</b>	19" unit, 4 UH
<b>Temperature range</b>	10 – 35 °C
<b>Humidity</b>	< 80 % non-condensing
<b>Air pressure</b>	86 – 106 kPa
<b>Included articles</b>	
<b>Power cord</b>	with country plug
<b>EUT connection cables</b>	two 0.25 m cables with crocodile clips
<b>User manual</b>	with conformity declaration
<b>Calibration certificate</b>	factory calibration

## INS-1250-30K optional accessories

<b>500 Ω output impedance</b>	CN-INS-500 optional output impedance
<b>Custom output impedance</b>	CN-INS-X selectable impedance 40Ω - 4 kΩ
<b>Test cabinet</b>	TC-ST cabinet with safety circuit
<b>Table adapter for TC-ST</b>	TC-ADAPTER to mount TC-ST near generator
<b>2 m extension cable</b>	EXT-INS-CON extension cable with box
<b>Warning lamp</b>	WARNING-LAMP red/green
<b>Emergency stop button</b>	external EMRGNCY-STOP with 5m cable
<b>Measurement board</b>	OPT-INS-MEAS internal board for peak V, I.
<b>Voltage probe</b>	V-PROBE-30K optional voltage probe
<b>Software</b>	TEMA3000 with optional modules

## INS-0805

### INS-0805 circuit: voltage impulse 1.2/50 $\mu$ s, 0.5 J, 500 $\Omega$

<b>Standards</b>	IEC 61180, IEC 60255-27, IEC 62052-11 IEC 60834-1/2, EN 50470-1 latest editions
<b>Application</b>	test insulation against voltage impulse
<b>Voltage test levels 0.5 J</b>	0.5 kV, 1 kV, 1.5 kV, 2 kV, 2.5 kV, 3 kV, 4 kV, 5 kV, 6 kV, 8 kV + 0 % / - 10 %
<b>Polarity</b>	positive, negative, alternating
<b>Output impedance</b>	500 $\Omega$ $\pm$ 10 %
<b>Impulse rise time</b>	1.2 $\mu$ s $\pm$ 30 %
<b>Impulse duration</b>	50 $\mu$ s $\pm$ 20 %
<b>Pulse energy at test levels</b>	0.5 J $\pm$ 10 %
<b>Repetition rate</b>	1 s – 655 s
<b>Included articles</b>	cables and test clips

### INS-0805 control features

<b>Operating system</b>	EMC PARTNER proprietary firmware
<b>Languages</b>	10 menu languages, selectable
<b>User interface</b>	7" colour touch display
<b>Connectivity</b>	ethernet, USB, RS485
<b>Surge voltage monitor BNC</b>	1 V = 4 kV, accuracy $\pm$ 3%
<b>Surge voltage on display</b>	0.5 – 8 kV, accuracy $\pm$ 3%
<b>Peak check function</b>	yes, programmable limits for measured U
<b>Trigger out</b>	BNC, max. 12 V
<b>Trigger in</b>	auto, manual, external (BNC input)
<b>Impulse counter</b>	programmable up to 65'535
<b>Emergency stop</b>	Emergency Stop button, BNC input (EUT Fail)

### INS-0805 supply, weight and dimensions

<b>Operating voltage</b>	115 / 230 V (50/60 Hz) $\pm$ 10%
<b>Power consumption</b>	ON < 400 VA, standby < 10 VA
<b>Temperature range</b>	10 – 35 $^{\circ}$ C
<b>Humidity</b>	< 80 % non-condensing
<b>Air pressure</b>	86 – 106 kPa
<b>Included articles</b>	
<b>Power cord</b>	with country plug
<b>EUT connection cables</b>	two 0.5 m cables with crocodile clips
<b>User manual</b>	with conformity declaration
<b>Calibration certificate</b>	factory calibration



### CN-INS-500

<b>Application</b>	matching network for insulation test
<b>Standard</b>	multiple, see generators
<b>Output impedance</b>	500 $\Omega$ , or direct generator output (40 $\Omega$ )
<b>Test level</b>	max. 30 kV
<b>Weight</b>	1.5 kg
<b>Dimensions</b>	24 x 10 x 8.5 cm
<b>For generators</b>	INS-1250-7K5, -15K, 22K5 or -30K

### CN-INS-X

<b>Application</b>	matching network for insulation test
<b>Standard</b>	multiple, see generators
<b>Output impedance</b>	custom, from 40 $\Omega$ to 4 k $\Omega$
<b>Test level</b>	max. 30 kV
<b>Weight</b>	2 kg
<b>Dimensions</b>	24 x 10 x 8.5 cm
<b>For generators</b>	INS-1250-7K5, -15K, 22K5 or -30K

### OPT-INS-MEAS

<b>Application</b>	measurement board for U, I
<b>Type</b>	internal board with 2 BNC outputs
<b>Voltage input</b>	up to 30 kV peak, bandwidth DC – 5 MHz
<b>Current input</b>	up to 2 kA peak, bandwidth 2 Hz – 20 MHz
<b>Values on screen</b>	U integral, I integral
<b>Output</b>	1 x BNC for U, 1 x BNC for I
<b>U output ratios via BNC</b>	1: 1000 $\pm$ 2 % for INS-1250-7K5 1: 2000 $\pm$ 2 % for INS-1250-15K 1: 3000 $\pm$ 2 % for INS-1250-22K5 1: 4000 $\pm$ 2 % for INS-1250-30K
<b>I output ratios via BNC</b>	1: 40 $\pm$ 2 % for INS-1250-7K5 1: 80 $\pm$ 2 % for INS-1250-15K 1: 120 $\pm$ 2 % for INS-1250-22K5 1: 160 $\pm$ 2 % for INS-1250-30K
<b>Internal measurements</b>	voltage integral, current integral with selectable thresholds
<b>For generators</b>	INS-1250-7K5, -15K, 22K5 or -30K
<b>Availability</b>	Can be ordered also after initial purchase

### V-PROBE-30K

<b>Application</b>	voltage monitor probe for INS-1250 series
<b>Type</b>	common mode passive, for impulse meas.
<b>Mounting</b>	on top of generator or on EXT-INS-CON
<b>Input voltage</b>	100 V – 30 kV waveform 1.2/50 $\mu$ s
<b>Accuracy</b>	2 %
<b>3 dB bandwidth</b>	DC – 5 MHz
<b>Input impedance</b>	40 k $\Omega$
<b>Input connectors</b>	2 x 4 mm
<b>Output connector</b>	1 x BNC
<b>For generators</b>	INS3000-7K5, -15K, 22K5 or -30K
<b>Availability</b>	Can be ordered also after initial purchase and mounted on site

### EXT-INS-CON

<b>Application</b>	2 m cables and terminal box for INS-1250
<b>Voltage capability</b>	max. 30 kV impulse 1.2/50 $\mu$ s
<b>Current capability</b>	max. 2 kA impulse 8/20 $\mu$ s
<b>For generators</b>	INS-1250-7K5, -15K, 22K5 or -30K

### TC-ST

<b>Standard</b>	multiple
<b>Application</b>	test cabinet with safety circuit
<b>Mounting</b>	on top of generator
<b>EUT volume</b>	20 x 20 x 30 cm
<b>Test cabinet material</b>	acrylic glass
<b>Insulation withstand</b>	pulse 1.2/50 $\mu$ s up to 30 kV
<b>Weight</b>	8 kg
<b>Dimensions</b>	43.5 x 47 x 25.4 cm
<b>Included</b>	control cable to generator
<b>For generators</b>	INS-1250-7K5, -15K, 22K5 or -30K
<b>Accessories</b>	WARNING-LAMP TC-ADAPTER

## TC-ADAPTER

<b>Application</b>	stand for TC-ST table-top mounting
<b>Insulation withstand</b>	pulse 1.2/50 µs up to 30 kV
<b>Weight</b>	approx. 5 kg
<b>Dimensions</b>	45 x 57 x 10 cm
<b>Requires</b>	TC-ST

## WARNING-LAMP

<b>Application</b>	red/green signalization lamp
<b>Protection class</b>	IP65, IEC 61140, VDE 0140-1
<b>Mounting support</b>	magnetic support, screwable bracket included
<b>Lamp type</b>	red and green (2 lamps), LED technology
<b>Weight</b>	0.3 kg
<b>Dimensions</b>	277 x 70 cm
<b>Included</b>	control cable to TC-ST/generator
<b>For generators</b>	INS-1250 series, IMU series

## EMERGENCY-STOP

<b>Application</b>	remote emergency stop button
<b>Colours</b>	standard red/yellow as in IEC 60947-5-5, IEC 60204-1, and ISO 13850
<b>Mounting</b>	on table, magnetic support also included
<b>Weight</b>	0.5 kg
<b>Dimensions</b>	78 x 72 x 64 mm
<b>Included</b>	5 m cable
<b>For generators</b>	INS-1250 series, IMU series

For further information please do not hesitate to contact your local EMC PARTNER AG representative.  
Visit our website for more information and contact details.

[www.emc-partner.com](http://www.emc-partner.com)

### Swiss Headquarters

EMC PARTNER AG  
Baselstrasse 160  
CH - 4242 Laufen

Phone +41 61 775 20 30  
Fax +41 61 775 20 59  
Email [sales@emc-partner.ch](mailto:sales@emc-partner.ch)  
Web [www.emc-partner.ch](http://www.emc-partner.ch)

### Your local representative

