

# ***VTM 15000***

***IMPULSE TRANSFORMER FOR ISOLATION TESTING***



**SURGE**



[www.haefely.com](http://www.haefely.com)

## SUMMARY

The VTM 15000 is used for isolation testing with 1.2/50 $\mu$ s voltage impulses.

The VTM 15000 runs together with a combination wave generator such as AXOS<sup>5</sup> Surge Test System or PSURGE 8000 & PIM 100. The output voltage of the generator is doubled, the voltage wave shape remains the same. The current wave shape is not defined any more. The lightning impulse is the most common impulse shape for testing isolations. No flash over should occur during testing. It is important to keep the load capacitance below the given maximum for having a proper impulse shape at the output of the VTM 15000. When the maximum load capacitance is exceeded one or more impulse parameters may be out of tolerance. The PSURGE 8000 Surge Platform and the AXOS<sup>5</sup> Surge Test System provide all the programming functions required to perform IEC, ANSI and UL testing also without the need of a control computer. The PSURGE 8000 Surge Platform is integrated in the WinFEAT&R control and reporting software package. This enhances an efficient set-up and operation of this test system.

### FEATURES & BENEFITS

- 1.2/50 $\mu$ s voltage impulse
- Output amplitude up to 15kV (PSURGE 8000 & PIM 100) or 10kV (AXOS<sup>5</sup>)
- Source impedances 12 Ohm, 40 Ohm and 500 Ohm
- Separate output for each source impedance
- Floating output

### APPLICATIONS

- Isolations
- Creepage distances
- Clearances
- Many IEC, ANSI, UL & EN product standards
- Other international requirements for voltage impulses

### STANDARDS

- IEC 60060-1
- IEC 60335-1
- IEC 61010-1
- IEC 61180-1
- IEC 61008-1
- IEC 61009-1

## TECHNICAL SPECIFICATIONS & SCOPE OF SUPPLY

GENERAL DATA		
<b>Turns ratio</b>	1:2	
<b>Impulse shape</b>	1.2/50 $\mu$ s	voltage impulse (lightning impulse)
<b>Output impedances</b>	12 Ohm 40 Ohm 500 Ohm	load capacity <200pF, load resistance > 5kOhm load capacity <300pF, load resistance > 5kOhm load capacity <600pF, load resistance > 50kOhm
<b>Output voltage</b>	up to 15kV up to 10kV	with PSURGE 8000 platform & e.g. PIM 100 with AXOS <sup>5</sup> Surge Test System
<b>Impulse output</b>	HIGH COMMON Protection earth	HAEFELY HV sockets safety banana socket terminal with 4mm banana socket

### SCOPE OF SUPPLY VTM 15000

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Qty. 1	VTM 15000 Impulse transformer
Qty. 1	HV input cable
Qty. 1	HV cable for HIGH output
Qty. 1	HV cable for COMMON output
Qty. 1	Cable for protection earth
Qty. 1	User manual

### OPTIONS AND ACCESSORIES

PIM 100	Impulse module combination wave 1.2/50 $\mu$ s...8/20 $\mu$ s
AXOS <sup>5</sup> Surge Test System	Expendable Surge Immunity Tester up to 5 kV
AXOS <sup>5</sup> Compact Immunity Test System	Compact Immunity Tester up to 5 kV
WinFEAT <sup>R</sup>	Control, Measurement and Reporting Software for PSURGE 8000 platform



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