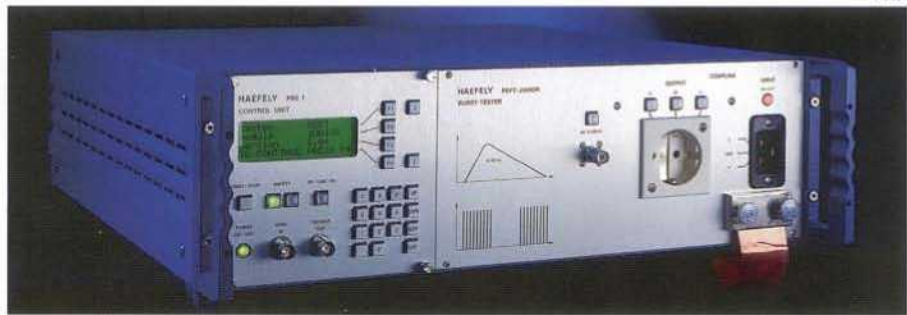


Burst Tester PEFT Junior

The PEFT Junior serves to perform electromagnetic immunity tests on electronic appliances and systems with nanosecond spikes (Bursts). The PEFT Junior Tester exceeds the requirements of IEC 801-4 and IEC 1000-4-4.



The PEFT Junior ideally complements the well known modular and flexible Haefely PEFT Tester for applications in design labs with test voltages up to 4 kV. The PEFT Junior excels by its light weight, its compact design, its integrated printer interface for test report generation and its optimized price/performance relation.

Enhances the quality and reduces the development time of your products by testing closer to reality.

Spike frequencies up to 1 MHz with even or random distribution.

Ohmic load independent wave shape

The PEFT Junior can be operated stand alone or integrated in the PATS automatic Test System; the WinPATS Software runs under Windows 3.1.

Further user benefits with PATS operation include:

- EUT surveillance (failure detection)
- Automatic test report generation
- Automatic output performance verification of the PEFT Junior in accordance with the provisions of the IEC Standard

Technical data

Function	Data	Tolerances
Electrical: Wave shape in loads of 50 Ohms and 1 kOhm	t_a rise-time t_b time to half-value	5 ns \pm 30% 50 ns \pm 30%
Output impedance	50 Ohms	\pm 20%
Output voltage, adjustable	0.22 up to 4.5 kV	\pm 10%
Spike frequency Burst length Burst frequency Number of spikes per second Polarity	1 Hz to 1 MHz 0.01 to 20 ms 1 to 400 Hz max. 600 positive and negative	
Built-in coupling filter: Rated voltage Nominal current	250 V ac DC max. 10A 50 Hz max. 16A 400 Hz max. 9A	
Frequency range -3dB Coupling attenuation Decoupling attenuation	1 to 100 MHz < 2 dB > 20 dB	

P 90 Control Unit

Memory for test sequences	11 storage places
Linear transitions/ramps	- voltage and frequency up and/or down - synchro angle up and/or down
Random spike distribution	frequency

Phase synchronization with supply	Synchronization frequencies 16%, 40, 50, 60 and 400 Hz
Trigger	Manual or automatic
Oscilloscope trigger	CRO output on front panel
Safety systems	Safety circuit.
Test reports	Connecting a printer to serial interface makes printout after each test, with EUT failure indication
Remote Control interfaces	RS232 and IEEE 488 integrated in optional RC 730 interface
Power supply PEFT Junior	115 V/230 V; 50/60 Hz $\pm 10\%$
Mains connection for EUT	Schuko socket
High voltage output	High voltage BNC connector
Dimensions: PEFT Junior	19", 3HU
External dimensions W x H x D	500 x 130 x 445 mm
Weight	approx. 15 kg
Quality: Safety	Complies with IEC 348 standard
EMC	ESD IEC 801-2 up to 8 kV
	EFT IEC 801-4 up to 4 kV
	Surge IEC 801-5/D up to 2 kV
Manufacture	in accordance with ISO 9001
Environmental conditions: Temperature	15 to 35°C
Humidity	10 top 75% RH
Atmospheric Pressure	86 to 106 kPa

Order

EFT tester PEFT Junior with:
User Manual in 3 languages D/E/F
for the tester mains supply, one of
the following 10A main cables:
Europe
U.K.
USA
Switzerland
for the EUT mains supply, one of
the following 16A main cables:
Europe
U.K.
USA
Switzerland

Ordering Text

PEFT Junior

Schuko mains cable 10A
U.K. mains cable 10A
USA mains cable 10A
CH mains cable 10A

Schuko mains cable 16A
U.K. mains cable 16A
USA mains cable 16A
CH mains cable 16A

Order Number

249 333.1

093 825.1
093 856.1
093 740.1
093 820.1

093 849.1
093 857.1
093 850.1
093 855.1

Accessories:
3 phase coupling filter
Capacitive coupling clamp
Set of adapters
50 Ohm measuring resistor
1 kOhm measuring resistor
Software for stand-alone operation
Automated Test Syst. Windows 3.1
730 Remote Control interface
Optical decoupling unit for 730
Measuring Adapter for filter output
Cable and Adapter set for RC 730

FP 16/3-1
IP4A
set adaptor
attenuation 54 dB
1 kOhm measuring resistor
P90U1 (DOS version)
WinPATS

FLP90OPT.1

249 148.1
249 130.1
249 200.1
093 577.1
SPZ 54
249 220.1
249 309.1
096 016.1
249 225.1
SPZ 53
249 227.1

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HIGH VOLTAGE TECHNOLOGY