

# PIM 130

## 1.2/50us Voltage Impulse Module

■ **Electric Strength** and transient level tests are made to ensure the safety of operating personnel. Such tests can be performed with the PIM 130.

Safety of Information Technology Equipment is covered in standards IEC 60950 and UL 1950, both of them cover the same requirements. Typical EUTs include **fax machines, copiers, computers, cash dispensing machines and telephones.**

The IEC standard clearly defines a generator with 1uF charging capacitor as in the PIM 130. Connection for the various tests is directly from the generator to the EUT mains power, telecom and enclosure ports but without the EUT being powered or in an operational state.

Safety tests are also required by the standards IEC60065 and IEC 61010. These standards cope with **audio and video apparatus** as well as **electrical equipment for measuring, control and laboratory use.** The same impulse circuit is used as by the other safety standards.

PSURGE 8000 Surge Platform can perform all the programming functions required to perform IEC, UL and ITU testing without the need of a control computer.

The integration in the WinFEAT&R **control and reporting software** package enhances an efficient set-up and operation of this test system. Most importantly, the test load can be transferred to a computer freeing valuable resources.



### ■ Features

- ☑ **Floating** high voltage output
- ☑ **1.2/50us** impulse shape with **13Ω** and **40Ω**
- ☑ **7.4kV** impulse amplitude
- ☑ **8kV** charging voltage
- ☑ Impulse voltage & current **monitors**
- ☑ WinFEAT&R software integrated

### ■ Benefits

**International application** - Specifically designed to meet and exceed the requirements of IEC 60065, IEC 60950, IEC 61010, UL 1950 and ITU K.44.

**Charging Voltage & Impulse voltage** - The PIM 130 can be configured to select either the charging voltage or the impulse voltage depending on the application.

**Safe and Easy** - The interlocked HV section and the integrated controller allow your operators to test safely and easily.

**Sturdy and Reliable** - Careful component selection ensures that the PIM 130 will continue to operate under the most strenuous testing regime.

**Report Generation** - The unit can automatically generate test reports without a computer. Add WinFEAT&R control and reporting software to collect and collate data in any format you like.

### ■ Applications

- ☑ Safety tests
- ☑ Information Technology Equipment (ITE)
- ☑ Audio and Video apparatus
- ☑ Electrical equipment for laboratory use
- ☑ Other international requirements for voltage impulses

## ■ Technical Specifications

Impulse Voltage	0.20 – 7.4kV	Impulse front time	V= 1.2us ±30%
Charging Voltage	0.20 – 8.0kV	Impulse duration	V= 50us ±20%
Source Impedance	13 and 40 ohms	Monitor Outputs	BNC, volts(1000/1) current(100A/V)
Repetition @ Umax	5 seconds / 12 per minute	Impulse Polarity	Positive and Negative
Charging Capacitor	1uF	Impulse Output	HV connector with safety circuit

Weights and Dimensions (W x H x D, net weight)

PIM 130	45 x 20 x 57 cm	44 lbs (29 kg)
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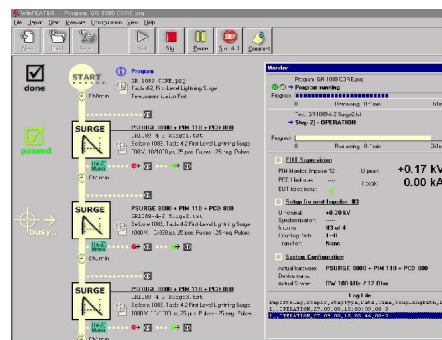
## ■ PIM 130 Art. No. 249976 Scope of Supply

- Qty. 1 PIM 130 Impulse Module
- Qty. 1 HV DC Bus cable 1m
- Qty. 1 Haefely Bus cable 0.5m
- Qty. 1 Earth bonding cable 1m
- Qty. 1 Earth bonding cable 0.25m
- Qty. 1 Users Manual

## ■ Options and Accessories

- PIM 120 10/700us generator according to IEC, UL and ITU requirements up to 7.4kV.  
*Art. No. 249940*
- Meas. Adapter Pig tail cable with HV plug, 1m. Used to connect the PIM 130 directly to the EUT.  
*Art. No. 249967*
- HV plug HV plug for the impulse output  
*Art. No. 249243*
- WinFEAT&R Control and reporting software. Runs under windows 98, NT, ME, 2000, XP  
*Art. No. 249970*
- Rack Mounting Modules can be rack mounted for greater mechanical stability and mobility.  
*Art. No. 4 Units high: 249692*  
*Art. No. 7 Units high: 249910*

## WinFEAT&R Control Window



Headquarters  
**Haefely Test AG**  
 Lehenmattstrasse 353  
 CH-4052, Basel  
 Switzerland

+ 41 61 373 41 11  
 + 41 61 373 45 99  
[EMC-sales@haefely.com](mailto:EMC-sales@haefely.com)

Locate your local  
 sales representative at  
[www.haefelyEMC.com](http://www.haefelyEMC.com)



**HAEFELY** EMC  
 TECHNOLOGY

North American Office  
**Hipotronics Inc.**  
**Haefely EMC Division**  
 1650 Route 22  
 Brewster, NY 10509

++1 845 279 3644 x264  
 ++1 845 279 2467

[EMCsales@hubbell-haefely.com](mailto:EMCsales@hubbell-haefely.com)