

PIM 130

1.2/50us Voltage Impulse Module

Safety Safety of Information Technology

Equipment is covered in the standards IEC 60950 and UL 1950 both of which cover the same requirements.

Typical EUTs include fax machines, copiers, computers, cash dispensing machines and telephones.

Annex N of 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.

Electric Strength and transient level tests are made to ensure the safety of operating personnel.

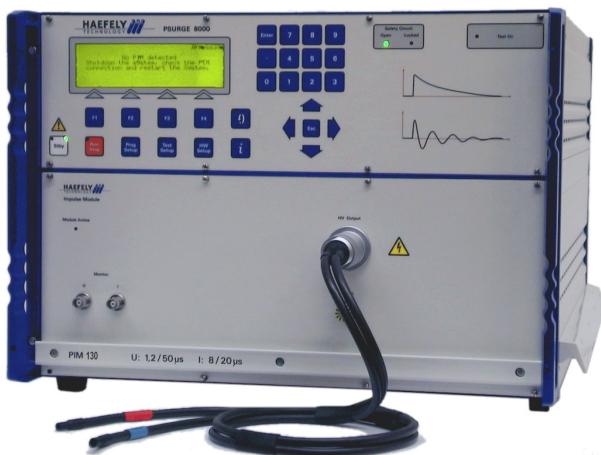
ITU K22 describes the **Overvoltage resistability** testing of equipment connected to an ISDN bus. Telecom and mains power lines are connected to the same generator **without** the application of either mains voltages or Telecom traffic. Connection is directly from the generator output to the mains input connections, or through a 4 wire coupling unit for the telecom interface. Typical EUTs include any equipment connected to ISDN lines.

The guidelines used in K22 have been adopted in IEC 60950.

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

PIM 130 's integration in the WinFEAT&R **control and reporting software** package, further enhances efficient set-up and operation of this test

system. Most importantly, the test load can be transferred to a computer freeing valuable resources.



Features

- 1.2/50us voltage pulse
- Source impedance selectable
- Charging voltage for IEC mode
- Output voltage for ITU mode
- Meets 600Vac over-voltage category 4
- WinFEAT&R software integrated

Benefits

International application – Specifically designed to meet and exceed the requirements of IEC 60950, UL 950 and ITU K22

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.

Faster completion of testing program - The PIM 130 connects to an EUT via either a PCD K22 for ITU telecom line testing or directly via HV probes for the testing of ITE products.

Applications

Information Technology Equipment (ITE)

4 wire Telecom lines

Many IEC, UL & EN Product standards

Other international requirements for voltage impulses

Technical Specifications

Impulse Voltage	0.20 – 7.4kV	Impulse Rise 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)	

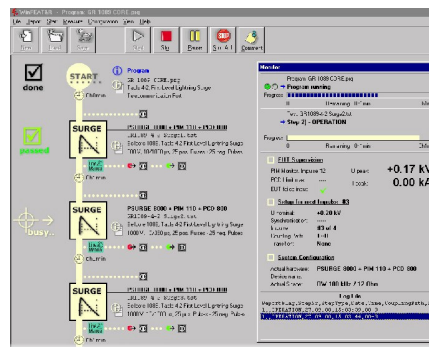
Scope of Supply

- 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

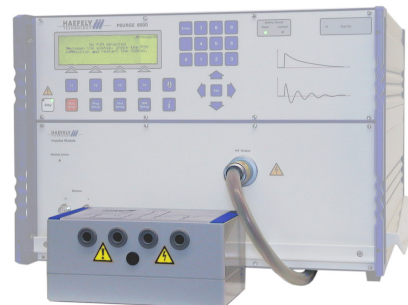
Options & Accessories

- PCD K22 4 wire coupling unit for data lines (ISDN) up to 7.4kV.
- PIM 120 10/700us pulse up to $U_c = 7kV$
- PEX 400 Case for PIM modules.
- WinFEAT&R Control and reporting software. Runs under windows 98, NT, ME, 2000, XP
- Rack Mounting Modules can be rack mounted for greater mechanical stability and mobility.

WinFEAT&R Control Window



PCD K22 Data line coupling box



PIM 120/PCD 120 required for IEC /UL Testing



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HIPOTRONICS
 THE MEASURE OF A LEADER

**ROBINSON
 INSTRUMENTS**

Tetrex
 INSTRUMENTS

Because Haefely has a policy of continuous product improvement, it reserves the right to change design and specification without notice.

PIM130/01.03