



PIM 200

8/20µs and 10/1000µs Current Impulse Module

The PIM200 is used for component testing with current impulses.

For testing overvoltage protection elements such as varistors, gas arrestors and avalanche breakdown diodes with clamping voltages up to 3kV. Both impulse shapes 8/20µs and 10/1000µs are used in tests according to the IEC and the ANSI standards. These tests include the measurement of the clamping voltage and life span tests with high energies and/or currents. The focus of the PIM 200 is for the high energy tests.

For testing overcurrent protection elements such as ground fault circuit interrupters and overcurrent trip switches. These are tested with 8/20µs and sometimes with 100kHz ringwave. These switches should not trip when an impulse current occurs. The 8/20µs requirement can be fulfilled with the PIM 200.

Resistibility tests for telecom equipment exposed to overvoltage and overcurrents can also be performed with the PIM 200.

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

PIM 200 's integration in the WinFEAT&R **control and reporting software** package and furthermore 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.



PIM200 with test cabinet (right side) shown with the PSURGE8000 controller (left)

Features

- 8/20µs current impulse from 800A up to 12kA
- 10/1000µs current impulse from 8A up to 110A
- Integrated test cabinet
- Clamping voltage display
- Peak current display
- WinFEAT&R software integrated

Benefits

International application – Specifically designed to meet and exceed the requirements of:

- IEC 61008, 61009, 61051, 61643
- ANSI C62.31, C62.33, C62.35
- UL 943
- ITU K.20, K.44, K.45

Safe and Easy - The HV terminals in the test cabinet are visibly short circuited when the test cabinet is opened. The interlocked HV section and the integrated controller allow operators to handle the EUTs and test them safely and easily.

Sturdy and Reliable – Careful component selection ensures that the PIM 200 will continue to operate under the most strenuous testing regimen. The semiconductor switch delivers the best reproducibility of the impulses and an extremely long life span.

Supervision - The clamping voltage and peak current into the EUT can be monitored. If the user set limits are exceeded, an alarm is given.

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

Applications

- Protection elements
- Telecom equipment
- Measuring the surge impedance of earth systems
- Many IEC, ANSI, UL & EN Product standards
- Other international requirements for current impulses

