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Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the "Click-to-Call" logo below, you can all us for FREE!

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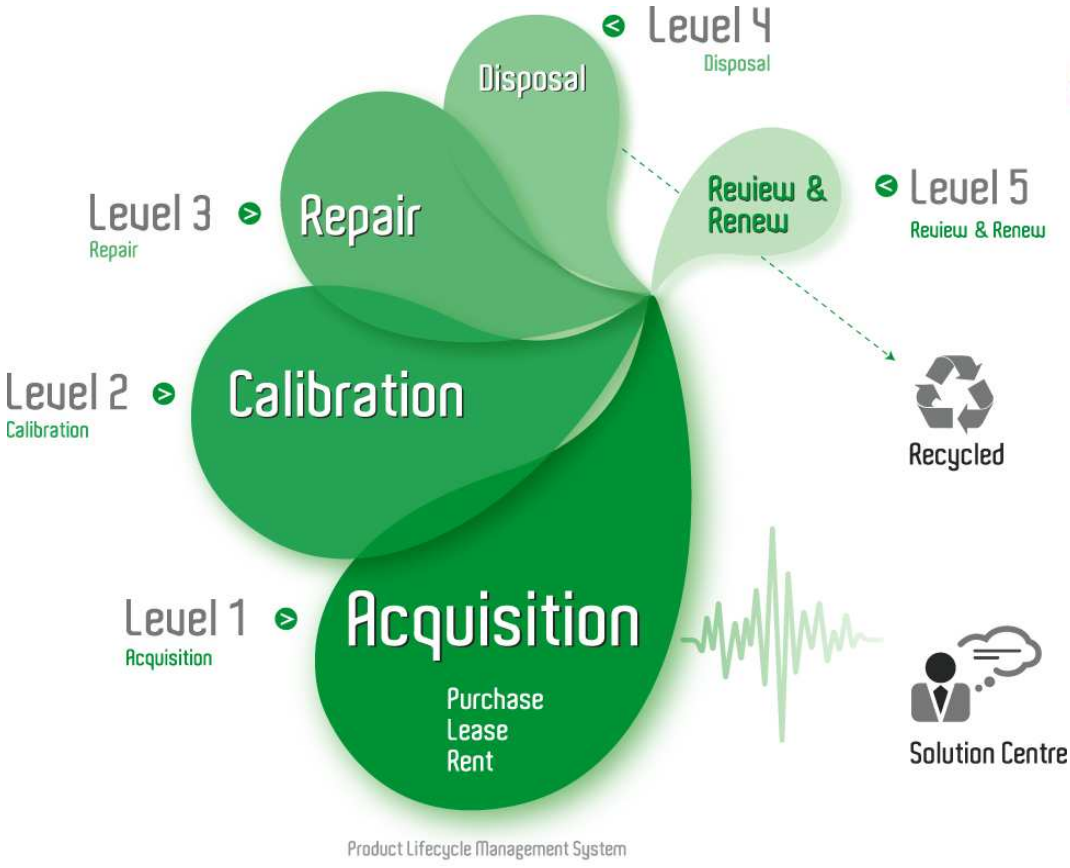


PIM 200

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

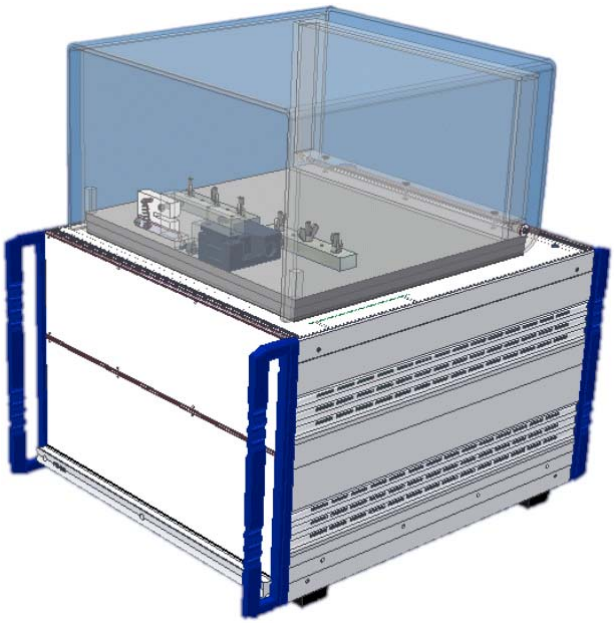
The PIM200 is used for component testing with impulse currents.

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, 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

- ☑ 8/20μs current impulse up to 12kA
- ☑ 10/1000μs impulse current up to 110A
- ☑ integrated test cabinet
- ☑ Clamping Voltage Monitor
- ☑ Peak Current Monitor
- ☑ 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 K20, K44, K45

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 or 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

Technical Specifications

Impulse Current	0.80 – 12kA; U_{CL}=0V	Impulse front time	I= 8µs ±10%
	0.80 – 10kA; U_{CL}=1000V	Impulse duration	I= 20µs ±10%
Impulse Current	8.0 – 110A; U_{CL}=0V	Impulse front time	I= 10µs +20/–10%
	8.0 – 100A; U_{CL}=500V	Impulse duration	I= 1000µs ±20%
Repetition @ Umax	10 seconds / 6 per minute	Impulse Polarity	Positive and Negative
		Impulse Output	HV terminals inside the test cabinet

U_{CL} = clamping voltage of the EUT

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

PIM 200	45 x 55 x 57 cm	approx. 40 kg (61 lbs)
Test Cabinet	36 x 20 x 32 cm (inside)	

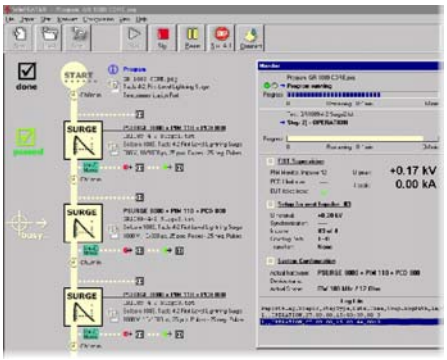
Scope of Supply

Qty. 1 PIM 200 Impulse Module
Qty. 1 Warning Lamp
Qty. 1 HV DC bus cable 1m
Qty. 1 Haefely Bus Cable 1.5m
Qty. 1 Earth bonding cable 1m
Qty. 1 Earth bonding cable 0.25m
Qty. 1 Users Manual

Options & Accessories

PIM 110	Impulse module 100kHz ringwave
PDP 8000	Differential HV Probe up to 8kV
Pearson 101	Current Probe 0.01V/A
EUTOPT.1	Optical fibre connection for the PSURGE 8000 EUT failed input
WinFEAT&R	Control and reporting software. Runs under windows 98, NT, ME, 2000, XP

WinFEAT&R Control Window



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HUBBELL High Voltage Test Business

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