



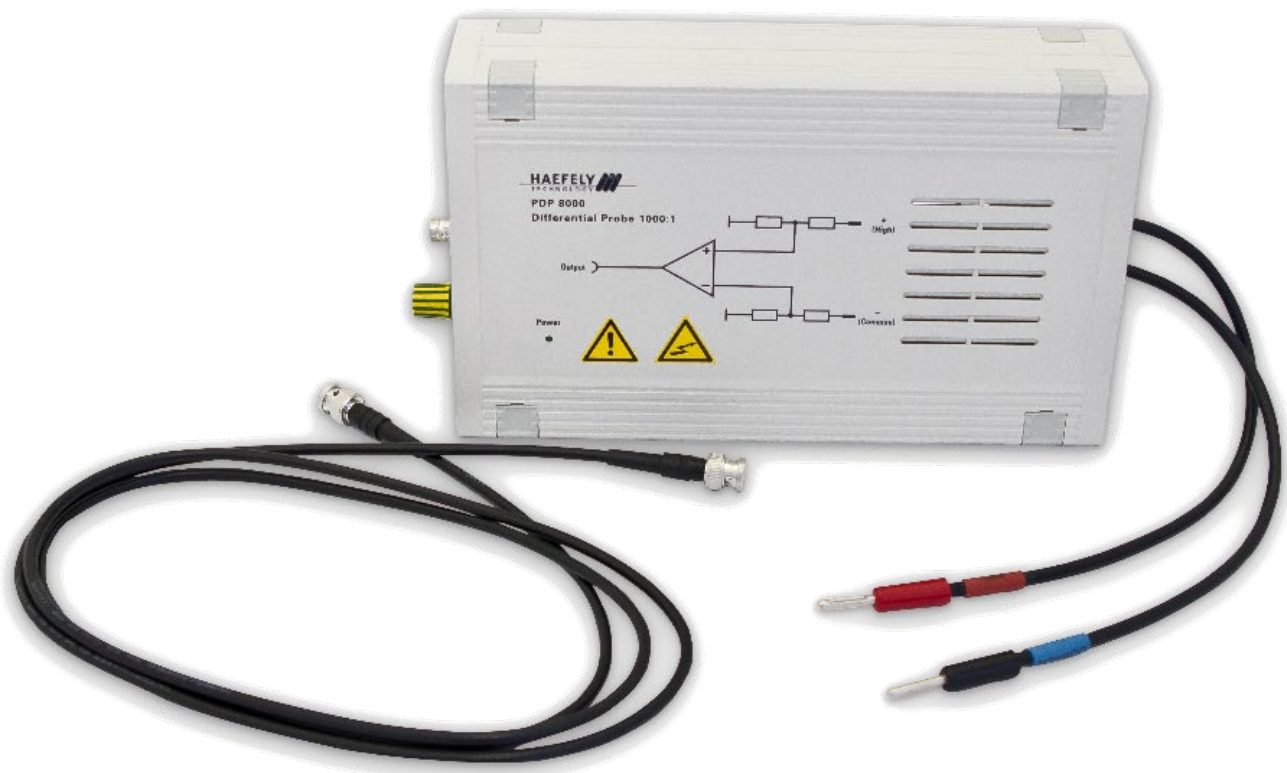
Advanced Test Equipment Corp.

www.atecorp.com 800-404-ATEC (2832)

PDP 8000

Differential Impulse Measurement Probe

Datasheet



HAEFELY

Current and voltage – our passion

General Description

The accurate measurement of Surge pulses for equipment calibration purposes requires that a Surge generator output be measured in both Differential and Common modes. Common mode measurements are relatively straightforward as the measurement is of a single output referenced to earth potential. Differential measurements however require that both the high and common of a Surge generator output are measured. This requires use of two high voltage probes and a dual channel oscilloscope capable of arithmetic functions.

High voltage probes are notoriously sensitive to measurement position (vertical, horizontal), proximity

of metal sheets, etc. In addition annual calibration of high voltage probes is NOT sufficient to ensure an accurate IMPULSE measurement can be made. So before each measurement, the probe(s) must be adjusted to the test equipment and measurement position. This is time consuming and requires additional test equipment or know-how not always readily available. To reduce the difficulties of Differential measurements from Surge generators, HAEFELY has developed an active probe specially for IMPULSE measurements on floating outputs.

Features	Advantages
▪ Divider Ratio 1000:1	☑ Flexibility – can be used with any standard oscilloscope
▪ Impulse measurement to 8kV	☑ Standarsized – qualified for use with all EMC IMPULSE generators
▪ Impulse duration measurement to 20ms	☑ Simple and Easy – to install
▪ Impulse rise time measurement from 400ns	☑ Time saving – reduces calibration time
▪ Single BNC output matches all oscilloscopes	☑ Low error – reduces calibration errors
▪ Separate power supply	☑ Accurate – defined CMRR (Common Mode Rejection Ratio)
▪ AC/DC measurement	

Applications

- Calibration of Surge impulse Generators

Scope of Supply

- PDP 8000
- User Manual
- ...

Technical Data

Device	
Divider Ratio	1000 > 1
CMRR	≥ 46 dB
Common Mode Input Impedance	30 kΩ
Differential Mode Input Impedance	60 kΩ
Max. Impulse Voltage	8000 V

Mechanical and Power Supply	
Dimensions (W x D x H)	260 x 62 x 160 mm (10.2 x 2.4 x 6.3in)
Weight	1 kg (2.2 lb)
Power supply Spec.	690 V differential / 400 V common mode

Other decoupling elements on request

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HIGH VOLTAGE



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