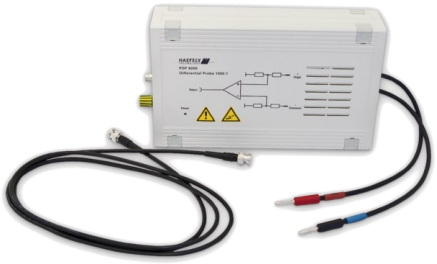
PDP 8000

Differential Impulse Measurement Probe

IEC 61000-4-5

- Calibration of Surge impulse generators acc. IEC 61000-4-5
- Divider ratio 1000:1
- Impulse measurement up to 8 kV
- Impulse duration measurement up to 20 ms
- Impulse rise time measurement from 400 ns
- Single BNC output matches all oscilloscopes
- AC/DC measurement



HAEFELY

For AXOS 5 and AXOS 8 devices from Haefely.

Overview

The PDP 8000 is suitable for the calibration of surge pulse generators according to IEC 61000-4-5.

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.

Key facts

- Separate power supply
- Can be used with all standard oscilloscope
- Reduces calibration errors and calibration times
- Defined CMRR (Common Mode Rejection Ratio)
- Easy to install

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Technical data

PDP 8000	
Divider ratio	1000:1
Impulse measurement	up to 8 kV
Impulse duration measurement	up to 20 ms
Impulse rise time measurement	up to 400 ns
CMRR	≥ 46 dB
Common mode input impedance	30 kΩ
Differential mode input impedance	60 kΩ
Max. impulse voltage	8000 V

Output	BNC
Dimensions (W x D x H)	260 x 62 x 160 mm (10.2 x 2.4 x 6.3 in)
Weight	1 kg (2.2 lb)
Power supply spec.	690 V differential mode 400 V common mode

Options

No. 2490400	AXOS 5	Compact
No. 2490800	AXOS 8	Compact

Scope of delivery

PDP 8000
User manual

All information regarding appearance and technical data correspond to the current state of development at the time of release of this data sheet. We reserve the right to make technical changes. 122310