

PDP 8000

Differential Impulse Measurement Probe

■ 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 HIPOTRONICS have developed an active probe specially for IMPULSE measurements on floating outputs.

FEATURES

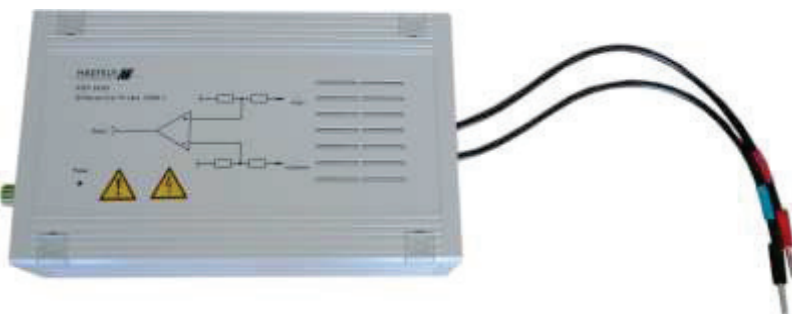
- ☑ Divider Ratio **1000:1**
- ☑ Impulse measurement to **8kV**
- ☑ Impulse duration measurement to **20ms**
- ☑ Impulse rise time measurement from **400ns**
- ☑ Single **BNC output** matches all oscilloscopes
- ☑ Separate power supply
- ☑ AC/DC measurement

BENEFITS

- Can be used with any standard oscilloscope
- Qualified for use with all EMC IMPULSE generators
- Simple and Easy to install
- Reduces calibration time
- Reduces calibration errors
- Defined CMRR (Common Mode Rejection Ratio)

APPLICATIONS

Calibration of Surge impulse Generators



TECHNICAL SPECIFICATIONS

Divider Ratio	1000 : 1
CMRR	≥ 46dB
Common Mode Input Impedance	30 k ohm
Differential Mode Input Impedance	60 k ohm
Max. Impulse Voltage	8000 V
Weight	1.0 kg
400 ns	400 ns
20 ms	20 ms
4mm “banana” plugs	4mm “banana” plugs
50 ohm BNC connector	50 ohm BNC connector
690 V differential/400V common mode	690V differential / 400V common mode
260 x 160 x 62mm	260 x 160 x 62mm

Other decoupling elements on request.

Ordering Information: PDP 8000 Art. No. 249991

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