



# MD 300 SURGE PULSE CURRENT PROBE SET



The MD 300 probe has been specially designed to verify surge current pulses as specified in IEC/EN 61000-4-5, ANSI C62.41 and their derivatives.

The main advantage of the MD 300 current probe is, that the measuring system is physically isolated from the circuit under test.

The MD 300 current probe is ready to use as coming along with pre-mounted coaxial cable. The BNC-end plug needs to be connected to the high-impedance input or 50 Ω input of an ordinary memory oscilloscope. Then the conductor carrying the surge current to be measured is passed through the hole in the current probe. The resulting voltage wave shape on the oscilloscope will then be an authentic reproduction of the actual current wave shape within the given accuracy.

The probe can be used for current pulse verification on surge generators. Optional FISCHER or LEMO connectors are available for matching the safety banana connectors of the shorting cable to the HV output of the generator. For monitoring the EUT current during a test, an additional IEC adaptor with the safety banana connectors can be connected to the generator EUT output for observation of one lead at a time.



- Specially designed for surge current pulse measurements
- Probe is physically isolated from the circuit
- Ready to use
- No additional attenuators needed

## Technical specifications

Maximum peak current :	5000 Amp
Maximum RMS current:	>63 Amp
Nominal ratio:	500:1 (into 1 MΩ system) 1000:1 (into 50 Ω system)
Sensitivity:	0.002 V/Amp (1 MΩ system) 0.001 V/Amp (50 Ω system)
Lower frequency (3 dB cut off):	<10 Hz
Higher frequency (3 dB cut off):	>20 MHz
Hole diameter:	8 mm
Probe connector:	SMA
Scope coax cable:	with SMA and BNC connectors
Operating temperature:	0 to 55°C
Output impedance:	50 Ω
Accuracy:	<±2%

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## Ordering information

MD 300 set	Carry case, current probe, coax cable with SMA/BNC connector, shorting cable with safety banana connectors, calibration certificate, user manual
Options:	
INA 6560	FISCHER to banana plug adaptor set
INA 2042	LEMO to banana plug adaptor set
INA 6554	IEC320 single phase to safety banana adaptor leads 2 x 155-131 6 to 4 mm adaptors with safety banana connectors
Note: The carry case provides spare place for all options.	