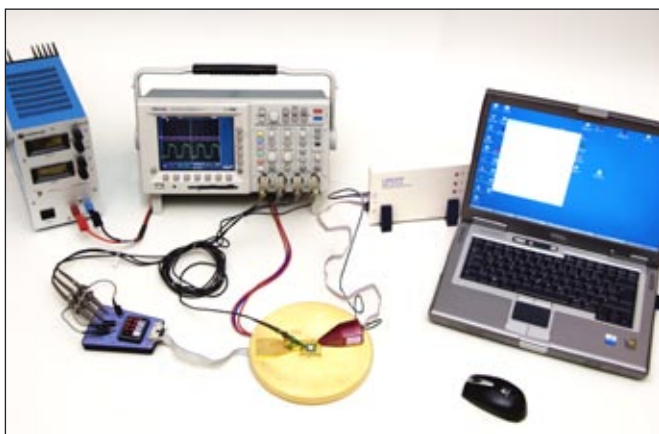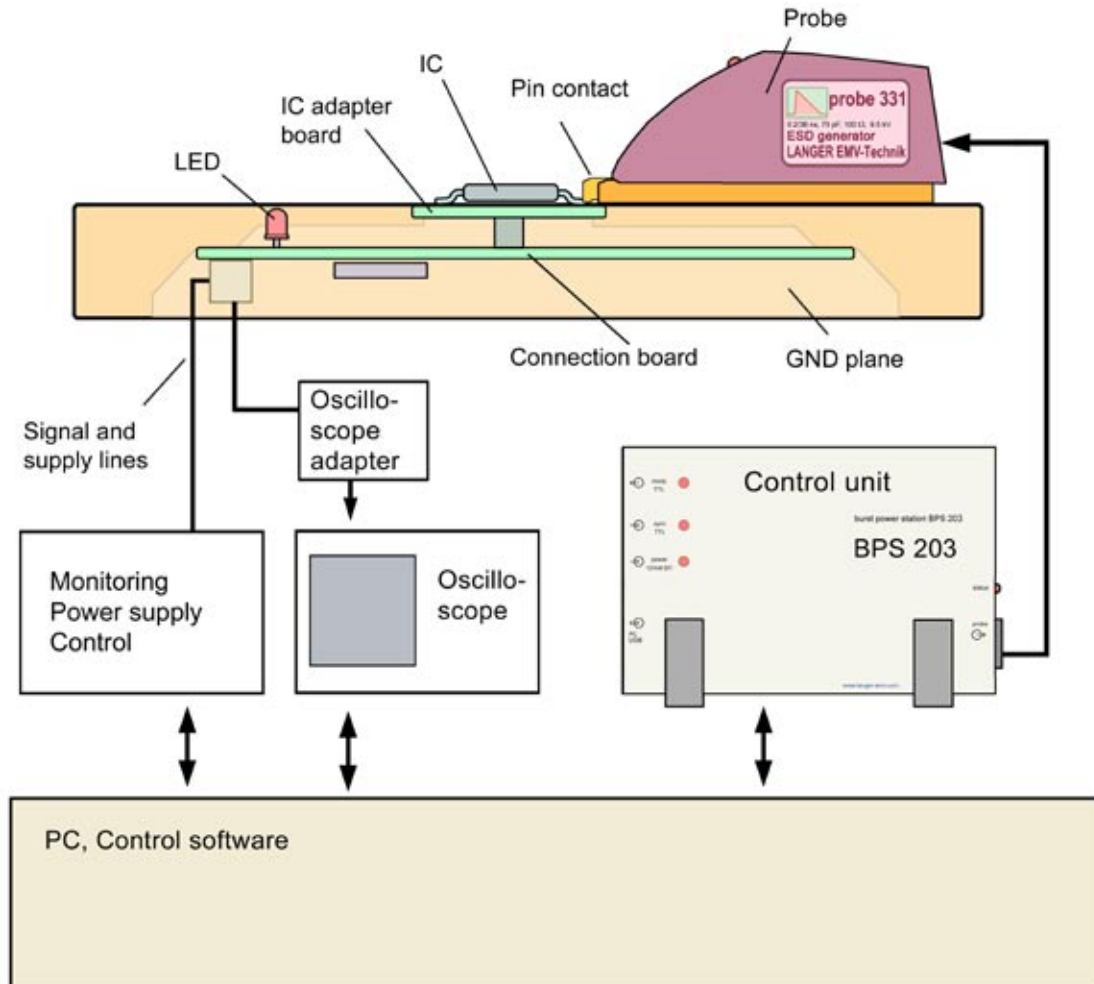**Measurements based on standard:**
  - IEC 61000-4-2

Measurement set-up consisting of:

- Probe
- Control unit BPS 203
- GND plane
- Connection board CB 0708
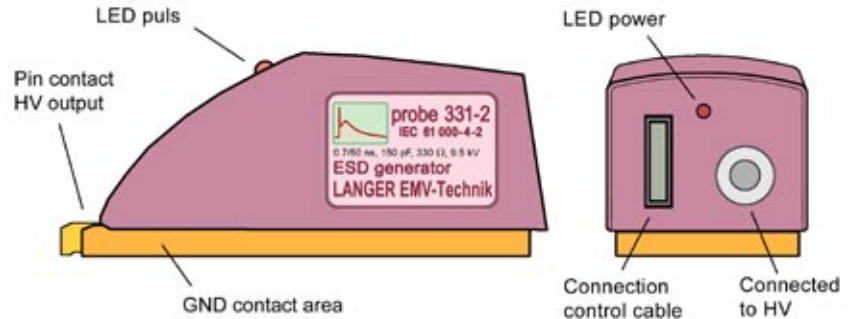- PC with „BPS203_Client" software

ESD coupling (IEC 61000-4-2)

Application:

Conducted ESD coupling according IEC 61000-4-2 into the IC pin or in touch with coupler to inject in interface pin, specific high speed interfaces like USB, LVDS, Ethernet etc..

Properties:

ESD pulse (see figure pulse shape below)

- the probe is operated with the BPS 203
- controlled via a PC user interface

Pulse voltage	$\pm$ 0.1 – 9.5 kV
Pulse frequency	0.1 – 10 Hz
Pulse shape	0.7 / 60 ns
Energy storage capacitance	150 pF
Discharge resistance	330 Ω

The probe 331-2 is only operated with the BPS 203 control station.

Pulse shape (IEC 610004-2)	**Equivalent circuit**

ESD Einkopplung

Application:

Conducted coupling into the IC pin or in touch with coupler to inject in interface pin, specific high speed interfaces like USB, LVDS, Ethernet etc..

Properties:
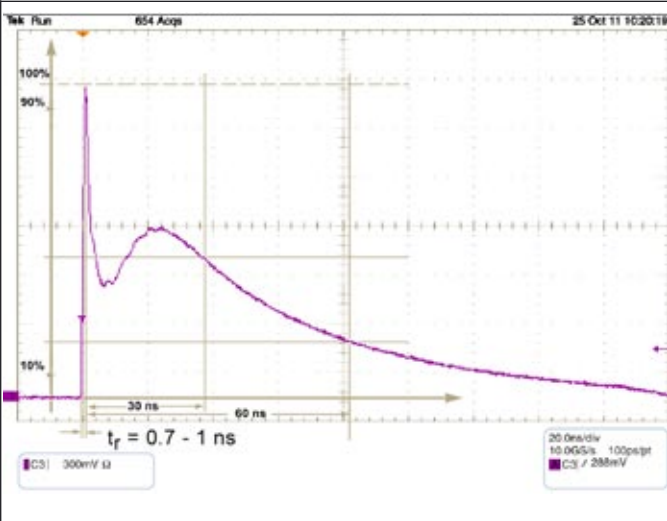
ESD pulse (see figure pulse shape below)

- the probe is operated with the BPS 203
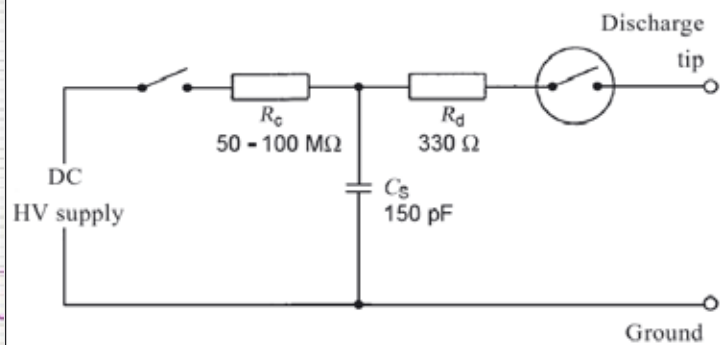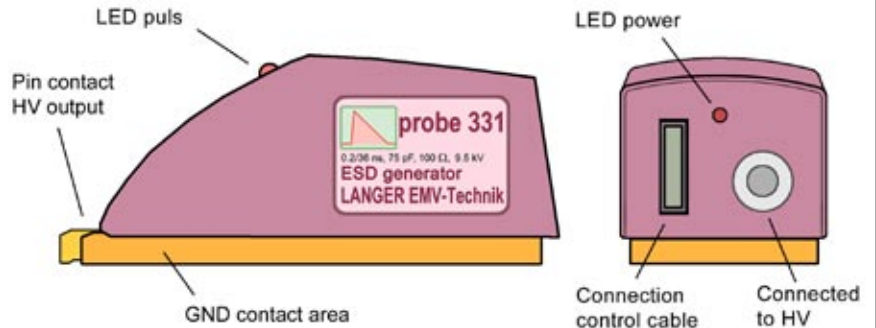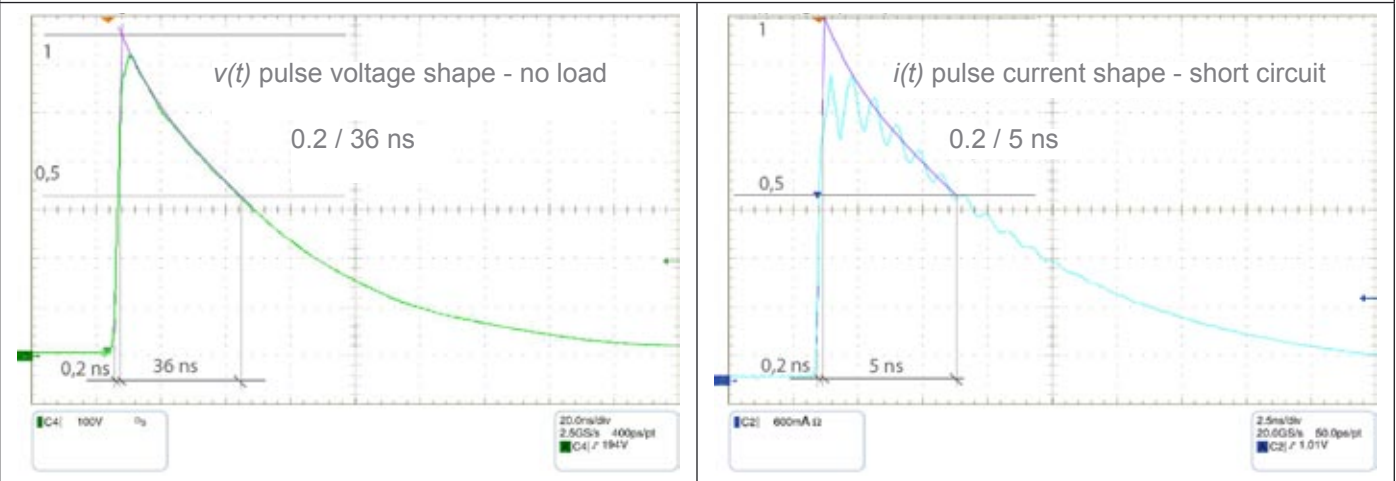- controlled via a PC user interface

Pulse voltage	$\pm$ 0.1 – 9.5 kV
Pulse frequency	0.1 – 10 Hz
Pulse shape	0.2 / 36 ns
Energy storage capacitance	75 pF
Internal resistance	100 Ω

The probe 331 is only operated with the BPS 203 control station.

Pulse shape

v(t) pulse voltage shape - no load

0.2 / 36 ns

i(t) pulse current shape - short circuit

0.2 / 5 ns

**Burst power station
for ESD probes**

Application:
The BPS 203 is used together with the ESD probes P331 and P331-2.
(plus 3.5: P1202, P1202-2, P1301)

Properties:
It supplies and drives the ESD probes.

The BPS 203 is connected to the PC via USB and supported by Software „BPS203_Client".

  - regulate the pulse frequency and the pulse voltage
  - single pulse and pulse sequences

Size (width/height/depth)	175/122/61 (mm)
Weight	0.4 kg
Control interface	USB
Pulse voltage range	+/- 100 V to +/-10.5 kV (depending on the connected probe)
Polarity	+/- or alternating
Pulse frequency range	0.1 Hz - 30 Hz (depending on the connected probe)
Supply voltage	12 V / 1A DC

Software:
BPS203_Client

  - Self configuratin of the BPS 203 due to probe change
  - Auto detection of the BPS 203 and the probe
  - Display of hardware parameters (BPS 203 and probes)

  - System requirement: min Windows 2000