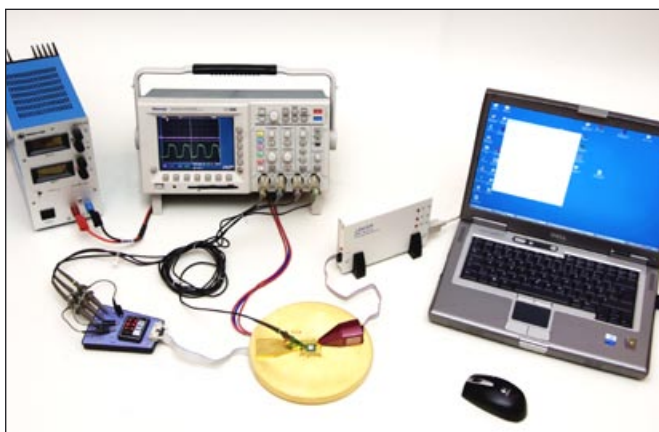
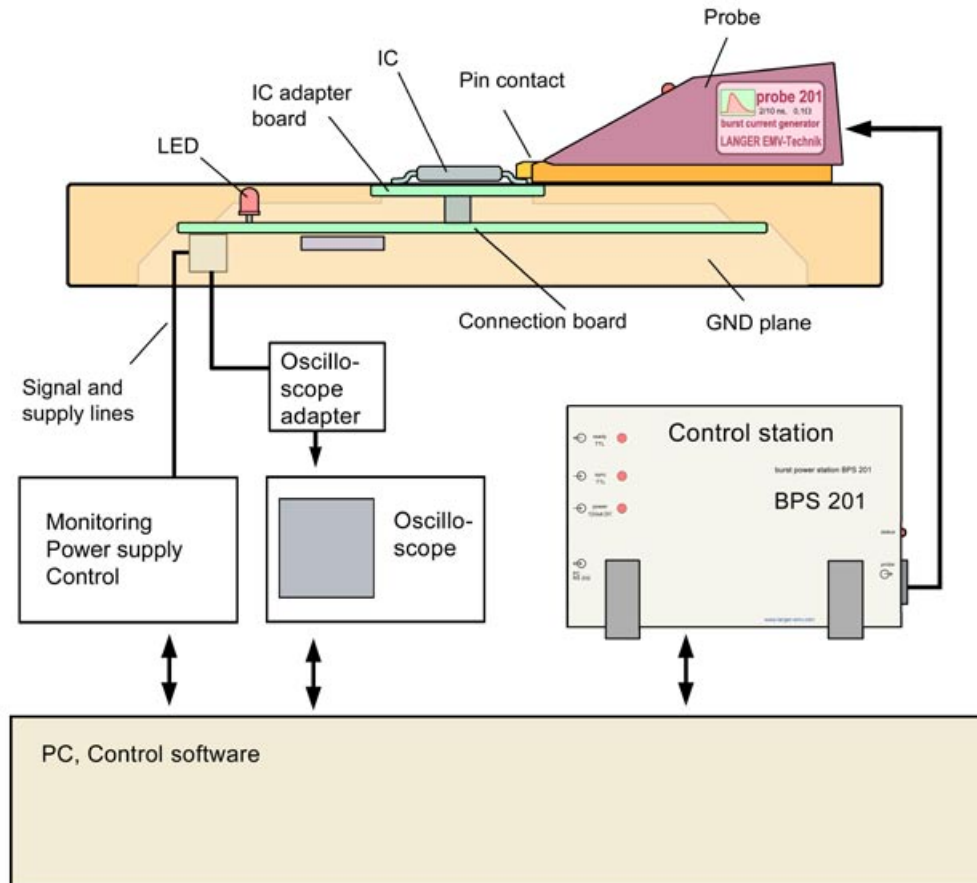


Measurements according standard:
- LANGER guideline IC EFT immunity



Measurement set-up consisting of:

- Probes
- Control station BPS 201
- GND plane
- Connection board CB 0708
- PC with „BursterClient“ software

Burst current generator

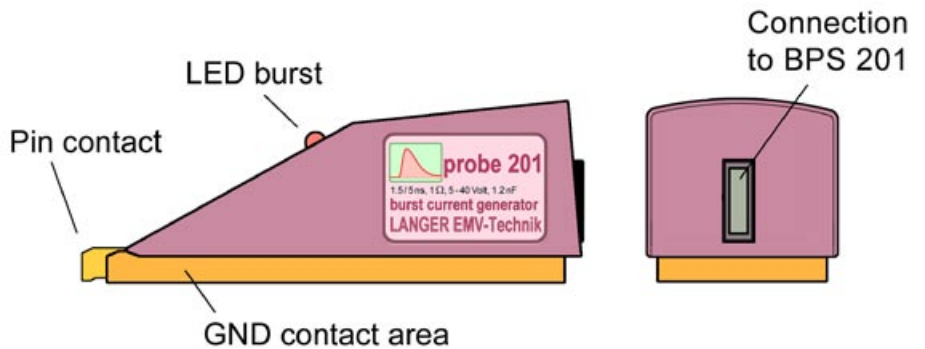
Application:

Conducted pulse current injection in IC pins.
The dimensioning of the probes depend on the pulse injection mechanisms via the magnetic field in electronic modules.

typical use for:
Vdd, Vss, signal pins

Properties:

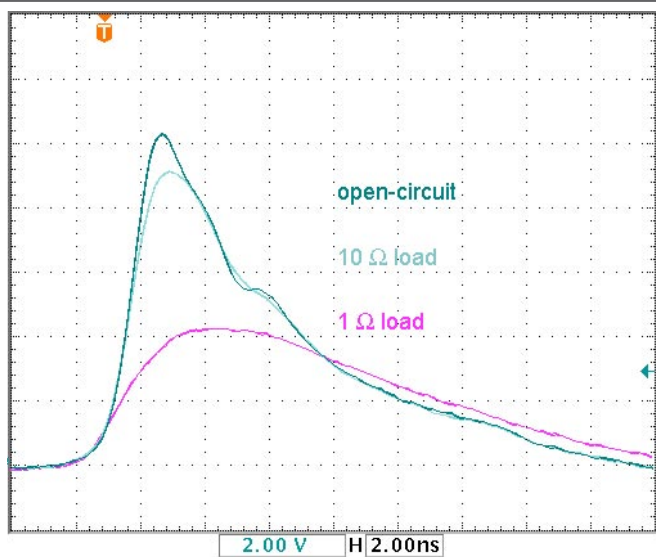
- low internal resistance
- high current drive



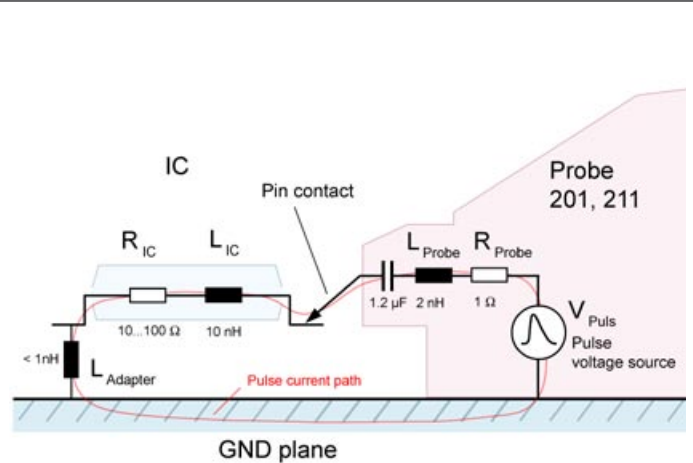
	Probe 201	Probe 211
Pulse voltage	± 5 – 40 V	± 0.5 – 5 V
Pulse frequency	0.1 Hz – 20 kHz	
Pulse shape	1.5 / 5 ns	
Coupling capacitance	1.2 μF	
Internal resistance	approx. 1 Ω	
Internal inductance	approx. 2 nH	

The probes 201 and 211 are only operated with the BPS 201 control station.

Pulse shape



Equivalent circuit



Burst voltage generator

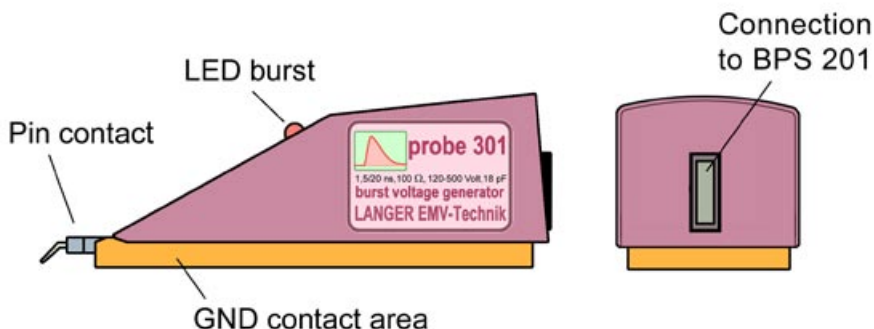
Application:

Conducted pulse voltage injection in IC pins.
The dimensioning of the probes depend on the pulse injection mechanisms via the electric field in electronic modules.

typical use for:
signal pins, oscillator

Properties:

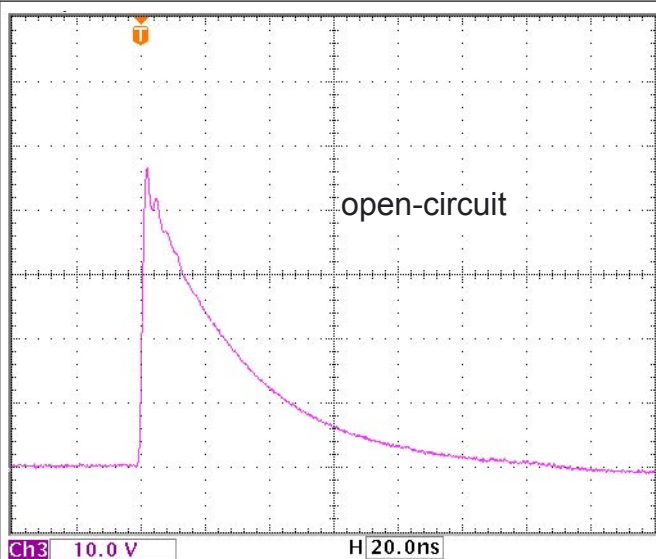
- high internal resistance
- high voltage drive



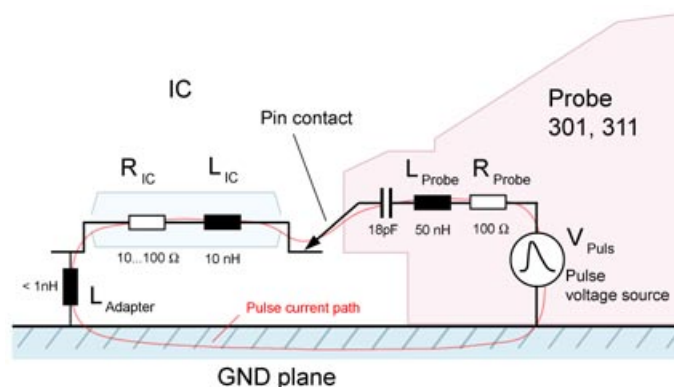
	Probe 301	Probe 311
Pulse voltage	$\pm 140 - 500 \text{ V}$	$\pm 5 - 140 \text{ V}$
Pulse frequency	$0.1 \text{ Hz} - 15 \text{ kHz}$	$0.1 \text{ Hz} - 20 \text{ kHz}$
Pulse shape	$1.5 / 20 \text{ ns}$	
Coupling capacitance	18 pF	
Internal resistance	approx. 100Ω	
Internal inductance	approx. 50 nH	

The probes 301 and 311 are only operated with the BPS 201 control station.

Pulse shape



Equivalent circuit



Burst power station for burst probes

Application:

The BPS 201-USB supplies and drives the burst probes.

Properties:

The BPS 201 is controlled from the PC via USB interface and supported by an external power supply.

- regulate the pulse frequency and the pulse voltage
- single pulse and pulse sequences
- external triggering available
- adjustable trigger delay
- synchronization output



Size (width/height/depth)	175/122/61 (mm)
Weight	0.35 kg
Control interface	USB
Software	PC control software „BursterClient“
Voltage range	depending on the connected probe (maximum 500 V)
Polarity	+/- or alternating
Frequency range	0.1 Hz – 20 kHz
Supply voltage	12 V / 1A DC
External trigger	TTL input Connector: BNC
Trigger delay	100 ns – 100 ms min. step size: 10 ns
Synchronization output	TTL output connector: BNC