





- Wave form
 - 0,1 / 2000 µs $4 \, \text{kV} - 10 \, \text{kV}$ **Test voltage**

Refer to the forum "network technology / network operations in the German VDE" (FNN). FNN "Guide for evaluating the reliability of electricity meters and measuring stability and additional facilities"

The test generator PG 01 - 2000 is suitable for insulation testing and testing the surge voltage resistance of electrical and electronic electricity meters. At idle, the generator generates a standard surge voltage with the waveform 0.1 / 2000 µs. The built-in divider 1000: 1 makes it easy to check the pulse voltage.

The forum "Network Technology / Network Operation in the VDE (FNN)" has dealt extensively with the topic of the reliability of electricity meters and defined corresponding test procedures.

The requirements for test generator PG 01-2000 are described in chapter 3.7.1 of the FNN "Guidelines for evaluating the reliability and measurement stability of electricity meters and

ancillary equipment".

An integrated memory function allows up to 25 settings to be recalled directly.

Pulse definition



Technical data may be changed without notice

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Technical Data

[4]	Nominal voltage	4,0 - 10,0 kV	
[4a]	Pulse form	Rise time 0,1 μs Pulse width 2000 μs Load >= 20 MOhm	
[4b]	Pulse form	under load 50 ohms Voltage = 50% Uidle	
		Pulse width 2.773 µs	
[<mark>13</mark>]	Polarity	Positive, negative, alternating	
 Energy of the source 		1 Joule – at 7 kV	
 Source impedance 		50 Ohm	
 Charge time 		\leq 5 seconds	
HV- Output		[1] Reference to earth	
 Functions 		[7] Adjustment by shaft	
		encoder:	
	•	[2] Space number	
	•	[4] Test voltage	
	•	[5] Phase angle	
	•	[9] Number of pulses	
	•	[8] Repetition frequency	
[17] Release remote control via RS 232			
[18] RS 232 – remote			
[11]	lrigger	Manual or external	
[<mark>5</mark>]	Phase angle for	$\varphi = 0 - 359^{\circ}$, step 1° main synchronization	
[<mark>9</mark>]	Number of pulses	1 - 999	
[<mark>8</mark>]	Repetition frequency	5 - 999 sec	

[10]	Discharge	Discharge of the storage capacitor / STOP
[12]	Charge	Charge of the storage capacitor
[<mark>6</mark>]	Memory function	Select test level with [7], max. 25 memory set up's possible.
[<mark>2</mark>]	Display Memory	>rcl< >Sto< >clr<
[<mark>3</mark>]	Display Memory	
	Space number:	1 – 25
[14]	BNC-jack for	voltage measurement 1V = 1 kV test voltage
[15]	BNC-jack for	scope trigger (TTL - level)
[16]	Ground connection	Ground jack at front and rear panel
Rear side		Short-circuit plug-in / jacks for external security circuit.
 Electronic input 		230 V / 50 Hz / 2,5 A
 Dimension 		19" - housing, 3 HE
 Weightapp. 		10 kg
 Calibration interval: 		2 years - manufacturer
		recommendation

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