

# Pulse Generator PG 01- 2000



- Wave form 0,1 / 2000 μs
- ♦ Test voltage 4 kV 10 kV

### 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"

### Introduction

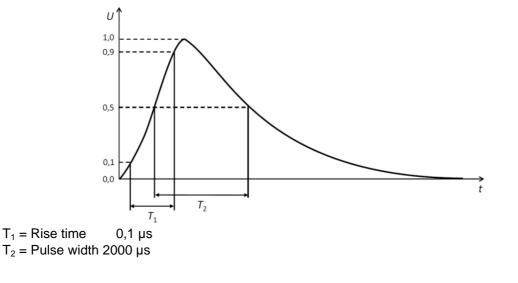
The test generator PG 01-2000 is suitable for insulation test and testing of the impulse withstand voltage of electrical and electronic electricity meters. The generator produce a standard pulse voltage waveform with the 0,1 / 2000  $\mu$ s. Using the 1000:1 build-in divider can easily checked the voltage pulse.

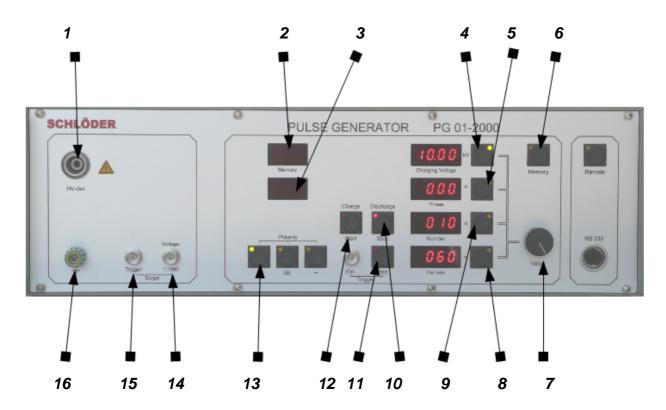
The forum "network technology / network operations in the (German) VDE (FNN) has dealt with the issue of reliability of electricity meters and defines appropriate test methods.

The requirements for the test generator PG 01-2000 are described in Chapter 3.7.1 of the FNN "Guidelines for the evaluation of measurement reliability and stability of electricity meters and ancillary equipment."

With a memory function up to 25 settings can be stored and recalled.

## **Pulse definition**





### **Technical Data**

[<mark>9</mark>]

[8]

[10] Discharge

Number of pulses

Repetition frequency

4,0 - 10,0 kV [4] Nominal voltage [12] Charge [4a] Pulse form Rise time 0,1 µs Pulse width 2000 µs **[6**] Load >= 20 MOhm [4b] Pulse form With load 50 Ohm Voltage = 50% U of 4a [2] Pulse width 2,773 µs [3] [13] Polarity Positive, negative, alternating Energy of the source 1 Joule - at 7 kV ٠ Source impedance 50 Ohm Charge time  $\leq$  5 seconds ٠ HV- Output [1] Reference to earth ٠ Functions [7] Adjustment by Poti for: • [2] Space number • [4] Test voltage [5] Phase angle • ٠ [9] Number of pulses [8] Repetition frequency [17] Release remote control via RS 232 [18] RS 232 - remote [11] Trigger Manual or external [5] Phase angle for  $\phi = 0 - 359^{\circ}$ , step 1° main synchr. triggering

Charge of the storage capacitor Memory function Select test level with [7], max. 25 memory set up's possible. >rcl< >Sto< >clr< **Display Memory Display Memory** Space number: 1 - 25[14] BNC-jack for voltage measurement 1V = 1 kV test voltage [15] BNC-jack for scope triggering (TTL - level) [16] Ground connection Ground jack at front and rear panel Short-circuit plug-in / jacks for external security circuit. Electronic input 230 V / 50 Hz / 2.5 A 19" - housing, 3 HE app. 10 kg Calibration interval: 2 years - manufacturer recommendation

Rear side

Dimension

Weight

1 - 999

5 - 999 sec

Discharge of the storage capacitor / STOP

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