

HV Probe-Calibrator

KHT1000D



- ▶ Output voltage up to ± 1000 V
- ▶ Risetime < 14 ns
- ▶ Rising and falling edge show identical steepness
- ▶ Common connector for positive and negative output voltage
- ▶ Probe connection via BNC to 4mm-adaptor included
- ▶ Controlled output voltage
- ▶ Option for control mode via USB / IEEE interface included
- ▶ Option for control mode via remote control unit included

Operating Principle

The calibrator KHT 1000C generates DC voltages and square wave signals of steep rising and falling edges up to $\pm 1000V$.

Alternatively positive or negative output voltage, so both polarities can be tested without re-connecting the probe. Rising and falling edges are identical.

Set by a four-step switch, output voltage is indicated by a four-digit digital display. Output voltage can be completely calibrated and follows the demands of ISO 9000 et

seqq. for close control of inspection, measuring and test equipment.

Steep rising and falling edges of less than 14ns and marginal overshoot permit to evaluate and calibrate fast HV-probes.

Interface:

USB-interface (option: IEEE-interface) enables adjustment of pulse width, repetition frequency (single pulse up to 100Hz), pulse voltage and DC-voltage continuously.

Technical Data

KHT 1000D

■ Square wave and DC-voltage	$\pm 100/200/500/1000V$, switchable (100 ... 1000V continuous*)
■ Accuracy DC	$\pm 1/0,5/0,25/0,1\%$ (± 1 Digit)
■ Resolution of voltage monitoring	0,1V/0,1V/0,1V/1V
■ Risetime	<14ns
■ Overshoot	< 2%
■ Repetition frequency	50 Hz (1 ... 100Hz continuous *)
■ Pulse width	5ms (1..100 ms continuous *)
■ Trigger output	10V
■ Trigger pulse width	1 μ s
■ Capacitive load (max.)	100pF
■ Ambient temperature	0 ... 55°C
■ Power supply voltage	90 - 250V AC/50 - 60 Hz
■ Dimensions	approx. 235 x 140 x 300mm

*= operation via interface - all dyn. measured values are determined with oscilloscope accuracy of $\pm 2\%$