



KHT 1000D

Voltage Probe Calibration Generator
 $\pm 100 \text{ V}$ to $\pm 1000 \text{ V}$

Datasheet

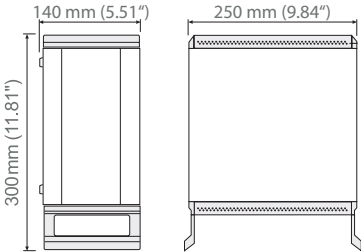
About Probe Calibration Generator KHT 1000D

The KHT 1000D generates DC voltages and steep-edged square-wave voltages up to $\pm 1000\text{V}$. The output voltage can be either positive or negative, so that both polarities can be tested without changing the probe connection. The edge steepness is identical for falling and rising edges. The output voltage, which can be switched in four ranges, is displayed digitally. The output voltage can be fully calibrated and thus complies with the requirements of ISO 9000 ff for complete monitoring of test equipment. With low rise and fall times of typical 14 ns and a low overshoot, even fast high voltage dividers can be evaluated, adjusted and calibrated. Via the integrated USB interface (optional GPIB) remote control the pulse width, repetition frequency (single pulses possible), square waves as well as DC voltages.

KEY FEATURES

- Output voltage up to $\pm 1000\text{V}$
- Rise time $< 14\text{ ns}$
- Rising and falling edge with equal edge steepness
- Common output for positive and negative output voltage
- Probe contacting via supplied BNC-4 mm adapter
- Regulated output voltage
- Remote control via USB interface (GPIB / IEEE-488.2 optional)
- Control via wired control unit (RCU-KHT 1000 optional)

Specifications

Electrical Specifications	
Square wave and DC voltage	$\pm 100\text{V} / \pm 200\text{V} / \pm 500\text{V} / \pm 1000\text{V}$ $\pm 100\text{V} \dots \pm 1000\text{V}^1$
Accuracy DC	$\pm 0.5\% / \pm 0.25\% / \pm 0.25\% / \pm 0.1\%$
Display Resolution	$0.1\text{V} / 0.1\text{V} / 0.1\text{V} / 1\text{V}$
Rise time	$< 14\text{ ns}$
Overshoot	$< 2\%$
Repetition frequency ²	50 Hz, 1 Hz - 100 Hz ¹
Pulse width ²	5 ms, 1 ms - 100 ms ¹
Trigger output	10 V (Signal-controller controlled)
Trigger pulse width	1 μs
Load ³	100 pF
Potential	Output (low) is at earth-ground levels
Mains voltage	100 V - 240 V AC / 50 Hz - 60 Hz
Mechanical Specifications	
Dimensions (W x H x D)	approx. 250 mm x 140 mm x 300 mm 
Weight	approx. 2700 g

Environmental Specifications		
Altitude	operating	up to 2000 m
	non-operating	up to 15000 m
Temperature Range	operating	0 °C to +55 °C
	non-operating	-40 °C to +71 °C
Maximum Relative Humidity	operating	80 % relative humidity for temperatures up to +31 °C, decreasing linearly to 40 % at +45 °C
	non-operating	95 % relative humidity for temperatures up to +40 °C

Specifications that are not marked as guaranteed are typical.
¹ For remote control adjustable in 62.5 mV / 1 Hz / 1 ms steps.

² Values are determined with an oscilloscope with an accuracy of $\pm 2\%$.
³ The device operates within the specified range for the load specifications mentioned.

Scope of Delivery

The following items are included in the scope of delivery.

Item	Qty	Item	Qty
Calibration Generator KHT 1000D with Interlock	1	Instruction manual	1
Power cord	1	Calibration certificate	1
4mm - BNC adapter	1	-	-

Interlock	
Control cable (2m) for connection to a closing contact (protective cover). Connection to the device via connector on the back of the device.	

Ordering Information

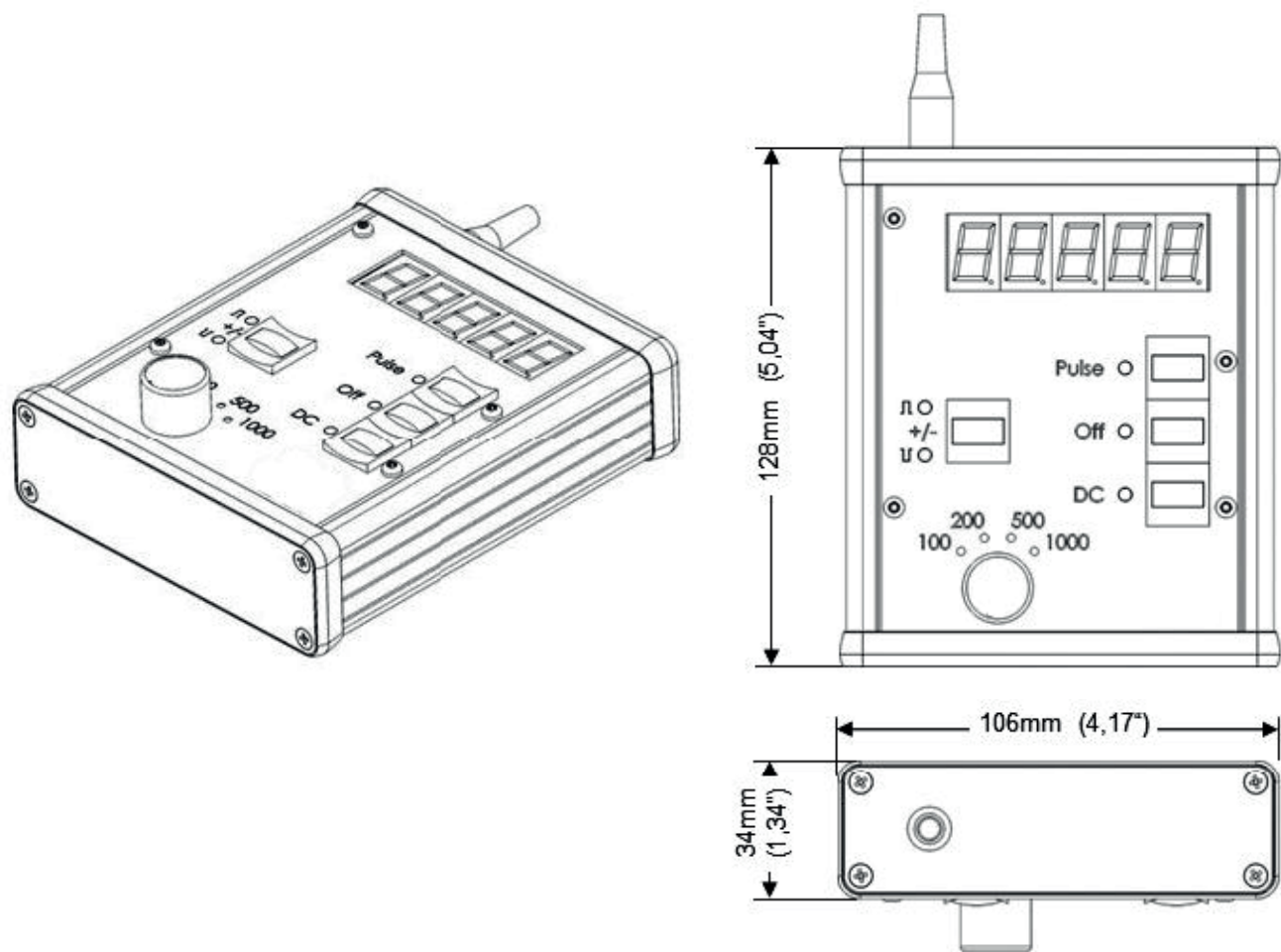
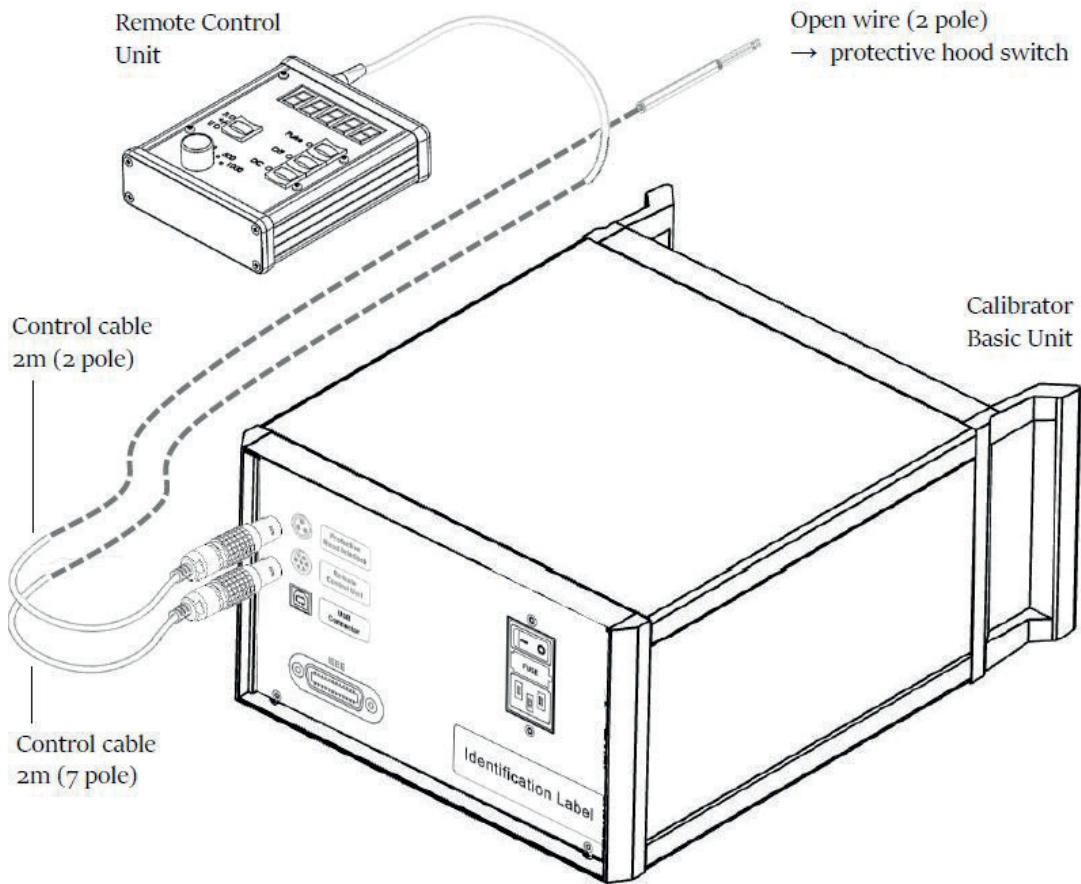
Model	Order No.
KHT 1000D	894-235-000

Options for KHT 1000D

Options	Order No.
GPIO (IEEE-488.2) Interface	GPIO-KHT1000
Additional interface for integration of the calibrator into a measurement software or for controlling the calibrator via PC.	---
Remote Control Unit *	RCU-KHT1000
Manual control unit for external control of the device. Connection to the device via control line and connector.	

* For more information see manual.

Remote Control Unit: Dimensions and Connection



Manufacturer

PMK Mess- und Kommunikationstechnik GmbH
Koenigsteinerstrasse 98
65812 Bad Soden am Taunus, Germany

Phone: +49 (0) 6196 999 - 5000

Internet: www.pmk.de

E-Mail: sales@pmk.de

Copyright © 2026 PMK - All rights reserved.

Information in this publication supersedes that in all previously published material.
Specifications are subject to change without notice.