



KHT 1000D

Voltage Probe Calibration Generator

$\pm 100\text{ V}$ to $\pm 1000\text{ V}$

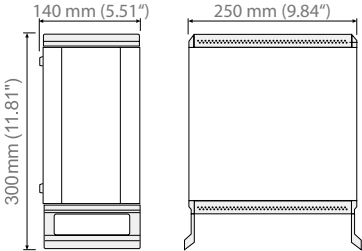
About Probe Calibration Generator KHT 1000D

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 |
| Maximum load (max.) | 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 |

This product comes with 2 years warranty.
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 $\pm 2\%$.

Scope of Delivery



The following items are included in the scope of delivery.

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

Ordering Information

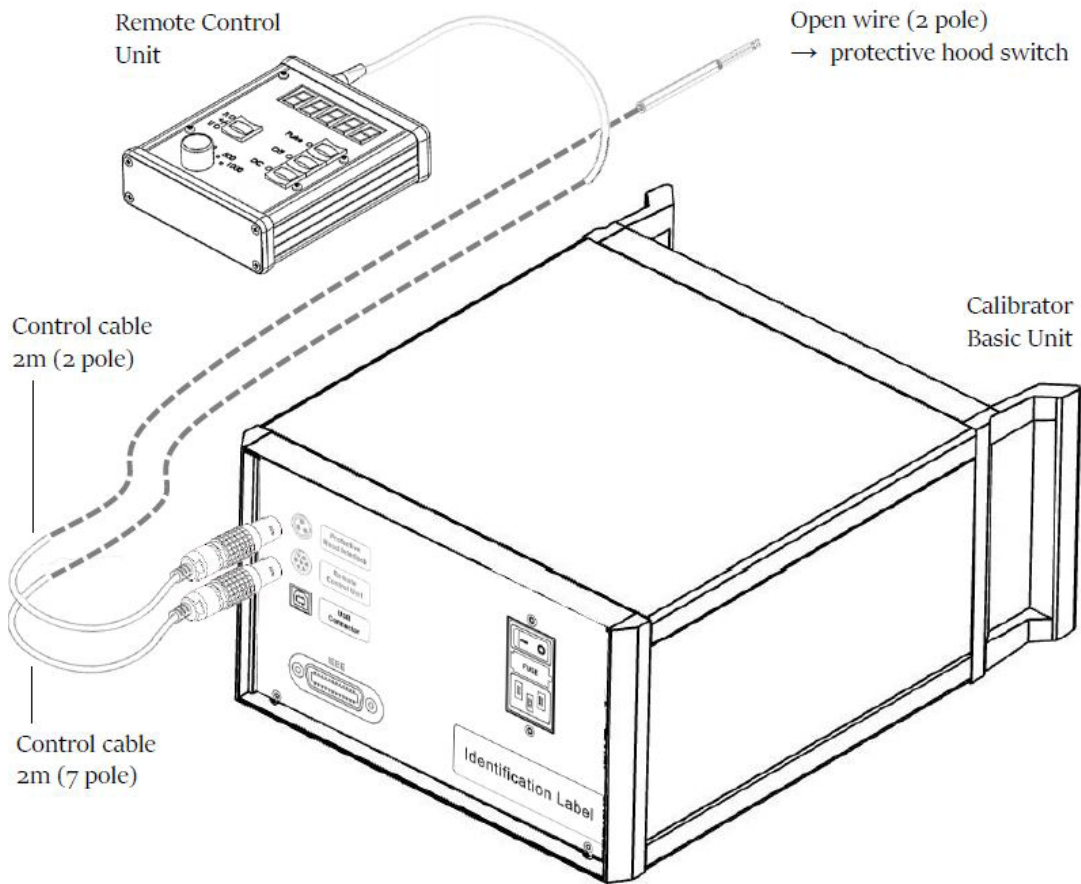
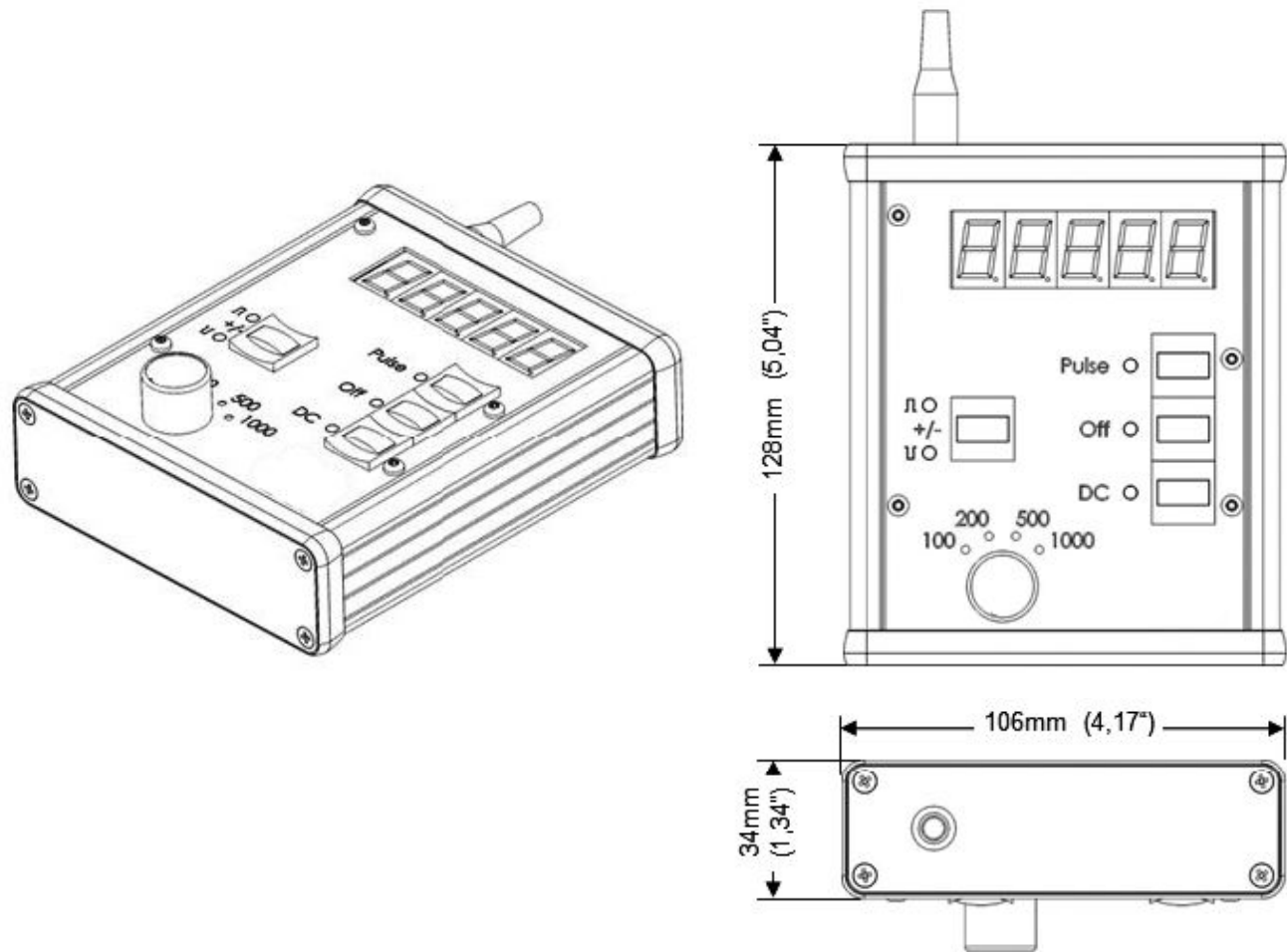
| Model | Order No. |
|-----------|-------------|
| KHT 1000D | 894-235-000 |

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 LEMO-Push-Pull connector. |  |
| Interlock | INTERL-KHT1K |
| Control cable (2m) for connection to a closing contact (protective cover). Connection to the device via LEMO-Push-Pull connector on the back of the device. |  |

* For more information see manual.

Remote Control Unit: Dimensions and Connection





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