



HP 80KV

Smart DC hipot up to 80 kV

Features

- Output voltage up to 80 kV DC
- Leakage current up to 10 mA
- Can be fully remote controlled from an Android™ device
- Lightweight, portable and robust, designed for field use
- Measures output voltage, leakage current
- "Pass / Fail" LED indicator
- Adjustable parameters: voltage, maximum leakage current, ramp and test duration
- Ripple <2%
- Built-in memory
- IP54 protection

Illustrative Photo. Smartphone not included.



Description

Tentech's HP80KV smart DC hipot is a cutting-edge dielectric test instrument designed with an emphasis on operator safety, versatility and ease of use. Complying with the most rigorous safety requirements, the system is divided into two modules, a control unit and a high voltage generation unit.

Additional safety features include an emergency stop switch and a built-in sound alarm. Furthermore, the ability to fully remote control the instrument from an Android device — both to program the settings as well as to perform the tests — provides increased safety protection and greater comfort for the operator.

HP80KV's built-in microprocessor allows the user to adjust the output voltage, test duration, maximum leakage current and ramp slope, allowing for more complex tests to be carried out automatically.



Remote Control App

This instrument has Bluetooth® interface and can be controlled remotely via an Android™ smartphone / tablet running the Remote Control App.



• Android™ and Google Play™ Store are trademarks of Google, Inc.
• Bluetooth® is a registered trademark of the Bluetooth SIG, Inc. worldwide.

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Technical specifications

TEST VOLTAGE

From 2,000 V up to 80,000 V.

TEST VOLTAGE RESOLUTION

100 V between 10 kV and 80 kV.
10 V up to 9.99 kV.

TEST VOLTAGE ACCURACY

± (2% of nominal value ± 2 digits) with 1 mA load.

POLARITY

Negative voltage, ground positive.

LEAKAGE CURRENT

Max. 10 mA.

LEAKAGE CURRENT RESOLUTION

0.01 mA.

LEAKAGE CURRENT ACCURACY

± (2% of nominal value ± 2 digits).

DISPLAY

Alphanumeric, displays the measurements in digital form.

RIPPLE

< 2%.

SAFETY FEATURES

Remote control via Bluetooth.
Emergency stop buttons.
Self-detection of sparks.
Visual indicators (LEDs).
Sound indicator.

USB

For configuration, control and download the stored values.

Bluetooth

For configuration, control and download the stored values

PROTOCOL

Modbus.

ADVANCED FEATURES

Ramp test.
Pass-Fail and fixed-time tests.
Internal memory.

BUILT-IN CHRONOMETER

Indicates the time elapsed from the beginning of the measurement in mm: ss format.

SOFTWARE

It allows to transfer the data stored in the equipment memory to a PC, to analyze them, to present the results in tables and graphs, to generate reports of the tests.

ENVIRONMENTAL PROTECTION

IP54 (with closed lid).

SAFETY

In accordance with IEC 61010-1.

POWER SUPPLY

Mains: 200-240 V, 50/60 Hz, 960 VA.

MAXIMUM OPERATING ALTITUDE

Up to 4,000 m (13,000').

OPERATING TEMPERATURE

-5 °C to 50 °C (23 °F to 122 °F).

STORAGE TEMPERATURE

-25 °C to 70 °C (-13 °F to 158 °F).

HUMIDITY RANGE

95% HR (non condensing).

EQUIPMENT WEIGHT

Control module: approx. 16.76 lb (7.6 kg).
High voltage module: approx. 21.16 lb (9.6 kg).

DIMENSIONS

Control module: 450 x 360 x 190 mm (17.5" x 14.2" x 7.5").
High voltage module: 450 x 360 x 190 mm (17.5" x 14.2" x 7.5").

Included accessories

- 1 Interconnection cable* (controller ↔ module).
- 1 High voltage cable*.
- 1 Return cable HV*.
- 1 Protective grounding cable*.
- 1 Power cable.
- 1 USB cable.
- 2 Carrying bag (control module and high-voltage module).
- 1 Operation Manual.
- 1 Software.

* Supplied with different lengths on request.