

□T70KV

Features

- Dielectric insulating glove tester for testing up to 70 kVpc
- Specially developed for glove dielectric testing in accordance with ASTM D120, ASTM F496 and IEC 60903 (annex E)
- Leakage current up to 500 μA
- Can be fully remote controlled from an App for Android™
- Measures output voltage and leakage current
- "Pass / Fail" LED indicator
- Selection of test parameters by glove class with adjustable maximum leakage current
- Ripple <2 %
- Polarity: Negative voltage, ground positive

The dielectric tester DT70KV is an instrument specially developed to insulating gloves testing, in accordance with standards ASTM D120-22, ASTM F496-23, EN60903:2003 and IEC 60903 (annex E) and insulating sleeves testing in accordance with standards ASTM D1051-23, ASTM F496-23 and IEC 60984:2014 (annex E). It was designed with emphasis on safety, versatility and ease of use. The voltage output is adjustable (according to the glove class), with up to 70 kVDC. Its intuitive interface makes it possible to program the glove class and the maximum leakage current, allowing automatic tests.

Complying with the most rigorous safety requirements, the system is divided into two units, 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 App for Android — both to program the settings as well as to perform the tests — provides increased safety protection and greater comfort for the operator.

Remote control by App



Increased safety and comfort : Set up, start and stop tests in an even safer and more comfortable way

Automatic reports : Generate test reports directly on the App

Smartphone / tablet features : Incorporate smartphone features into your reports (photo, GPS coordinates and test location map)



- Android, Google Play and the Google Play logo are trademarks of Google $\ensuremath{\mathsf{LLC}}$

Modbus® Protocol

This equipment implements the Modbus® open protocol. All configuration, real-time control, monitoring of measurements, and retrieval of test information can be performed using commercial tools such as LabVIEW® and PLCs, or even through dedicated software and own development. In this way, the entire measurement and analysis process can be automated according to the application's needs. Complete documentation with accessible and controllable parameters is provided, as well as clarification of doubts about the use through technical support.

- Modbus is a registered trademark of Schneider Electric USA, Inc.
- LabVIEW is a registered trademark of National Instruments Corporation



Technical specifications

ELECTRICAL	
Test voltage	Up to 70,000 V
Test voltage resolution	100 V between 10 kV and 70 kV 10 V up to 9.99 kV
Test voltage accuracy	Up to 50 kV: \pm (2 % of nominal value \pm 2 digits) with 500 μ A load Above 50 kV: \pm 1 kV
Polarity	Negative voltage, ground positive
Leakage current	Max. 500 μA
Leakage current resolution	1 μΑ
Leakage current accuracy	± (2 % of nominal value ± 2 digits)
Ripple	<2 %
FEATURES	
Safety features	 Remote control via Bluetooth Emergency stop buttons Self-detection of sparks Visual indicators (LEDs) Sound indicator
Advanced features	Automatically configured tests in accordance with ASTM D120, ASTM F496 and IEC 60903 (annex E) Periodic tests for gloves class: 00, 0, 1, 2, 3 and 4 "Pass / Fail" test Timed tests (within the limits of each standard)
Display	Alphanumerical LCD display, 4 lines / 20 characters (Big Number)
Chronometer	Up to 3 min., indication in mm:ss
Built-in memory	Memory for storing up to 107 tests with 3 minutes duration each
COMMUNICATION	
Protocol	Modbus
USB	For configuration, control and download the stored values
Bluetooth	For configuration, control and download the stored values
SOFTWARE	
Desktop (PC/Notebook)	TLogger software: for remote control, allowing to configure, run tests and generate reports
Android (Smartphone/ Tablet)	TENTECH Remote Control app: for remote control, allowing to configure, run tests and

generate reports



STANDARDS		
Safety class	IEC 61010-1	
ENVIRONMENTAL		
IP rating	IP65 (with closed lid)	
Operating temperature	23 °F to 122 °F (-5 °C to 50 °C)	
Storage temperature	-13 °F to 158 °F (-25 °C to 70 °C)	
Humidity range	95 % RH (non condensing)	
Maximum operating altitude	Up to 13,000 ft (4,000 m)	
POWER SUPPLY		
Mains	200 - 240 V~ 50/60 Hz 50 VA	
MECHANICAL (OF THE INSTRUMENT)		
Weight	Control unit: approx. 16.76 lb (7.6 kg) High voltage unit: approx. 21.16 lb (9.6 kg)	
Dimensions	Control unit: 17.5" x 14.2" x 7.5" (450 x 360 x 190 mm) High voltage unit: 17.5" x 14.2" x 7.5" (450 x 360 x 190 mm)	

Accessories

- Graduated tank
- Interconnection cable* (control unit <-> HV unit)
- High voltage cable*
- Return cable HV*
- 2 protective grounding cables*
- 2 glove holders
- 4 clamps for fixing gloves
- Power cord
- USB cable
- User manual
- TLogger software (download)
- TENTECH Remote Control App (download)
- Carry case (control unit)
- Carry case (HV unit)

Optional gadgets

• Sleeve fixing kit



^{*} Supplied in different lengths on request

Drawer for fixing and testing insulating sleeves

The DT70KV has several accessories that make it possible to carry out tests on different PPE.

The sleeve drawer is a practical and efficient solution, which allows the quick and safe exchange of insulating sleeves during dielectric tests.

Developed for dielectric testing of sleeves in accordance with standards ASTM D1051-23, ASTM F496-23 e IEC 60984:2014 (annex E)



Images are for illustrative purposes only







Remote control by App

TENTECH equipment that has Bluetooth® interface can be controlled remotely via an Android™ smartphone / tablet running the TENTECH Remote Control application. Set the parameters, start / stop a test, save the data and generate reports.







Increased safety

TENTECH Remote Control communicates with the equipment through a Bluetooth® connection, allowing remote control of the tests, further increasing user safety in tests with potential risks.



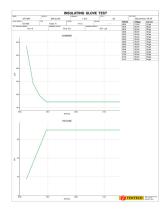




Smartphone features and automatic reporting

Record voice annotation for each measurement, generate automatic test reports directly on the App. Incorporate smartphone / tablet features into the report (photo, GPS coordinates and test location map).







Using the remote control does not require Internet connection (the Internet is only necessary if you want to see a map of the test site or send reports by email).



- Android, Google Play and the Google Play logo are trademarks of Google LLC
- Bluetooth is a registered trademark of the Bluetooth SIG, Inc. Worldwide





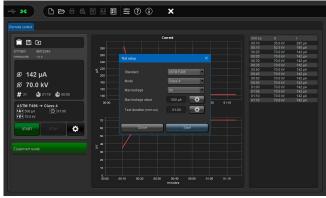


Software for remote control and reporting

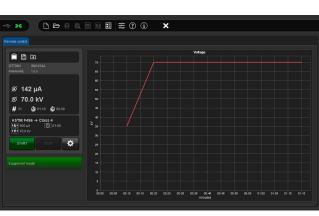
TLogger communicates with the equipment through a USB connection. Set the parameters, start / stop a test, save the data and generate reports.



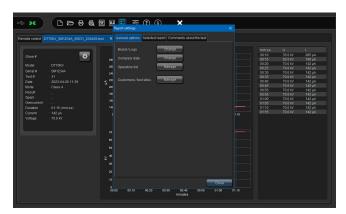
Available for download at: www.tentech.com/tlogger



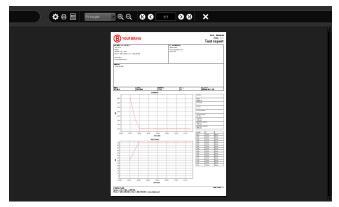
Test settings



Charts



Report settings



Report generation



TENTECH instruments are made in the USA and used in over 40 countries worldwide.



Test & Measurement equipment

Earth ground testers Hipots

Insulating glove tester

Insulation testers

Kilovoltmeters

Micro-ohmmeters



TENTECH CORPORATION

7330 NW 66th ST Miami, FL 33166 USA

For more information

Phone : +1 305 938 0389
Fax : +1 786 401 7165
E-mail : sales@tentech.com
Site : www.tentech.com

All images are for illustrative purposes only.

These specifications are subject to change without notice.