MEGABRAS

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Insulating gloves tester - 70 kVDC

DT70KV

2 YEAR WARRANTY

ASTM D120 | ASTM F496 | IEC 60903 (anexo E)

Remote control by App

Features

- Insulating gloves dielectric tester with test voltages up to 70 kVDC
- Specially developed for dielectric testing of gloves in accordance with standards ASTM D120, ASTM F496 and IEC 60903 (annex E)
- Leakage current up to 500 µA
- Remote control by Android device
- Measures the 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, positive ground
- USB and Bluetooth interface
- Built-in memory to store test results
- Lightweight and robust
- Computer software for test report generation

Description

The dielectric tester **DT70KV** is an instrument specially developed to insulating gloves testing, in accordance with standards ASTM D120, ASTM F496 and IEC 60903 (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.

Has one LED to indicate the presence of high voltage in the output terminal during a measurement and one bi-color LED to indicate the test result (Pass / Fail).

Meeting the most stringent security requirements, the system is divided into two modules, one for control and the other for high voltage. The high voltage module is equipped with an audible alarm and both modules have emergency stop switch. Through an Android device it's possible to program all parameters of the hipot, besides remotely controlling the tests, further increasing the security.

Remote control by Android™ App

GET IT ON Google Play

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 LLC

Sparks auto-detection

In the event of a spark (e.g. rupture of the insulation of the element under test), the high voltage generation is automatically interrupted

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	DT70KV
Test voltage	Up to 70,000 V
Test voltage resolution	100 V from 10 kV up to 70 kV 10 V up to 9.99 kV
Test voltage accuracy	Up to 50 kV: ± (2 % of nominal value ± 2 digits) with 500 µA load Above 50 kV: ± 1 kV
Polarity	Negative voltage, positive ground
Leakage current	Max. 500 µA
Leakage current resolution	1 µA
Leakage current accuracy	± (2 % of nominal value ± 2 digits)
Ripple	< 2 %
FEATURES	
Measuring modes	• Automatically configured tests, according to standards 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)
Safety	Emergency stop switches, Sparks auto-detection, Visual indicators (LEDs) and Audible indicator
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
STANDARDS	
Safety	IEC 61010-1
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)	MegaLogg 3 software: for remote control, allowing to configure, run tests and generate reports
Android (Smartphone/Tablet)	BlueLogg app: for remote control, allowing to configure, run tests and generate reports
ENVIRONMENTAL	
IP rating	IP65 (with closed lid)
Operating temperature	-5 °C to 50 °C
Storage temperature	-25 °C to 70 °C
Humidity	95 % RH (non condensing)
POWER SUPPLY	
Mains	200 - 240 V~ 50/60 Hz 50 VA
MECHANICAL	
Weight	Control module : approx. 7.6 kg High voltage module : approx. 9.6 kg
Dimensions	Control module : 450 x 360 x 190 mm High voltage module : 450 x 360 x 190 mm

Included accessories

- Graduated tank
- Interconnecting cable (control - high voltage modules)*
- High voltage cable*
- Return cable*
- 2 Protective ground cables*
- 2 Glove holders
- 4 Clamps to fix the gloves
- Power cord
- USB cable
- User manual
- MegaLogg 3 software (download)
- BlueLogg app (download)
- Control module carrying bag
- High voltage module carrying bag

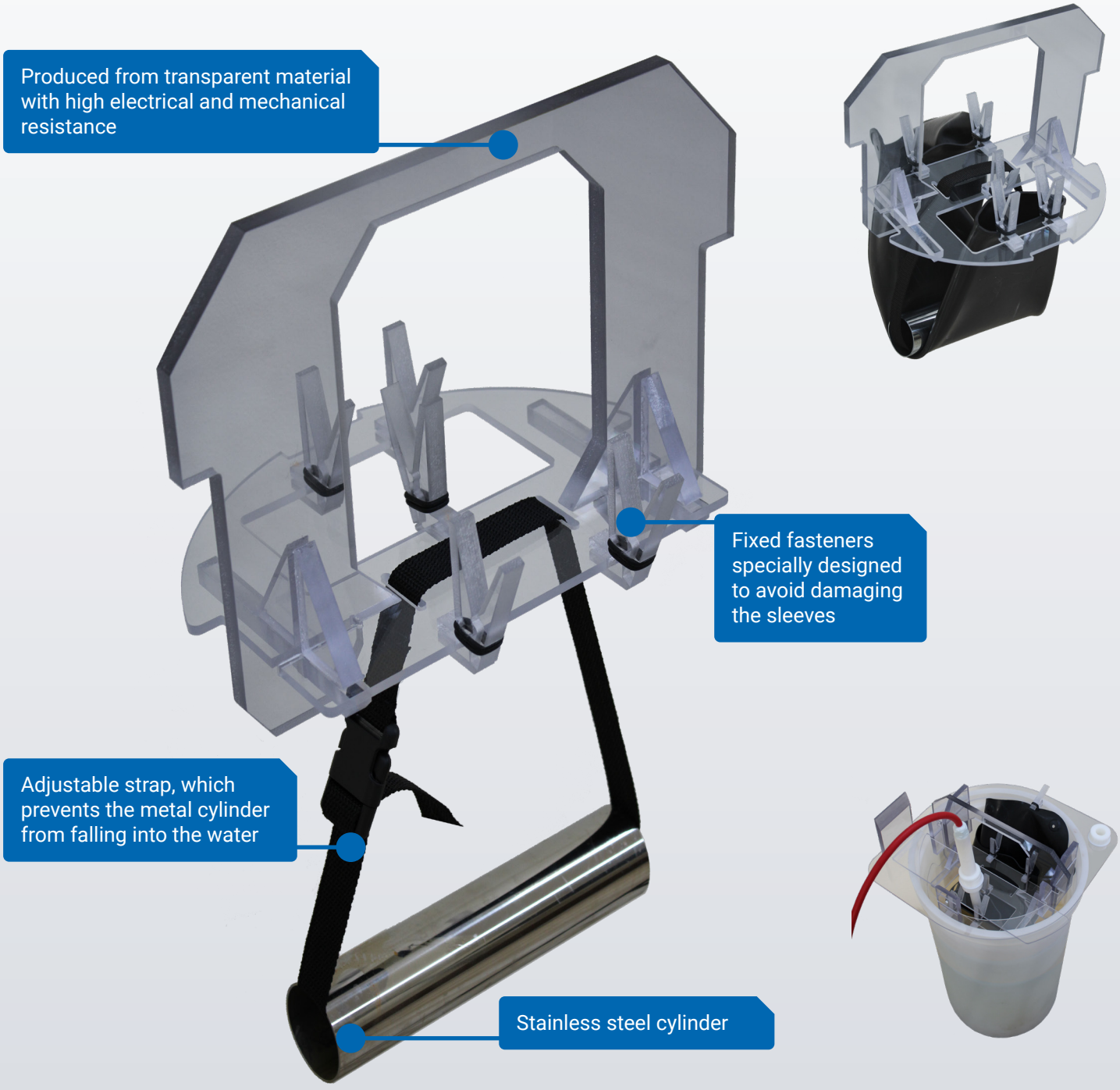
** Supplied in different lengths on request.*

DT70KV Accessories

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.



Images are for illustrative purposes only

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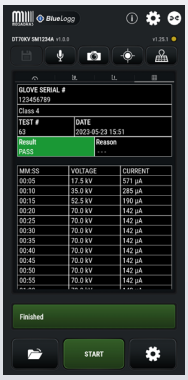
Smartphone App

Real-time measurement

Test details

Test Start / Stop



BlueLogg

Remote control by App

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

Increased safety

BlueLogg 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

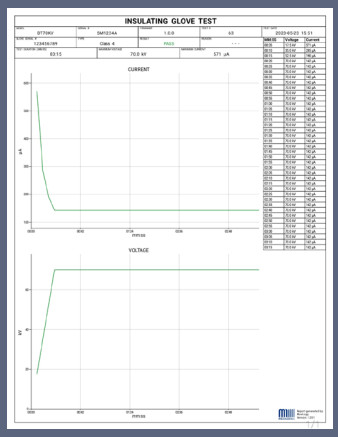
Record voice annotation for each measurement, generate automatic test reports directly on the App. Incorporate smartphone / tablet features into the report (photo, GPS coordinates and test location map).

Voice annotation

Pictures

GPS coordinates

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).

GET IT ON Google Play

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

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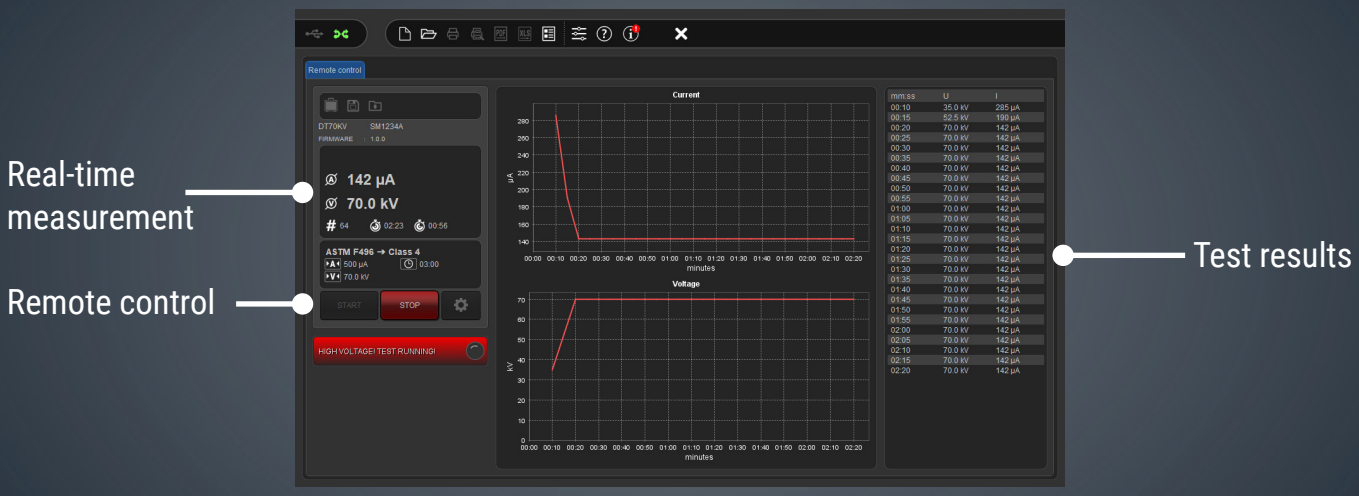
Desktop software

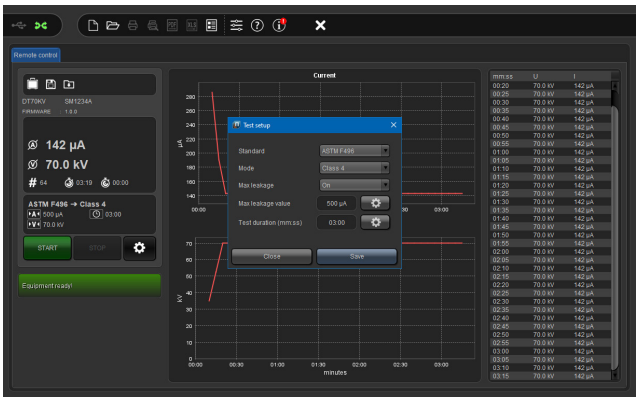
MegaLogg 3

Software for remote control and reporting

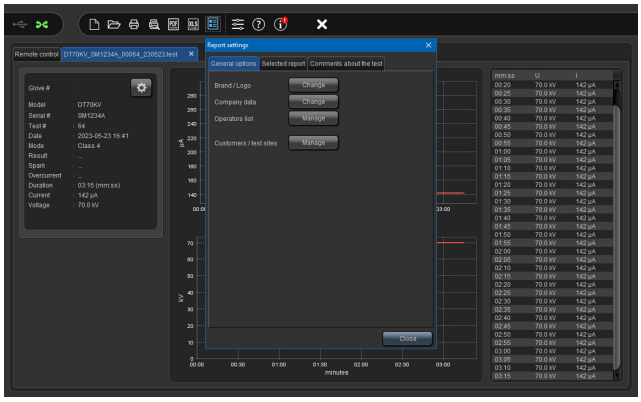
MegaLogg 3 communicates with the equipment through a USB connection. Set the parameters, start / stop a test, save the data and generate reports.



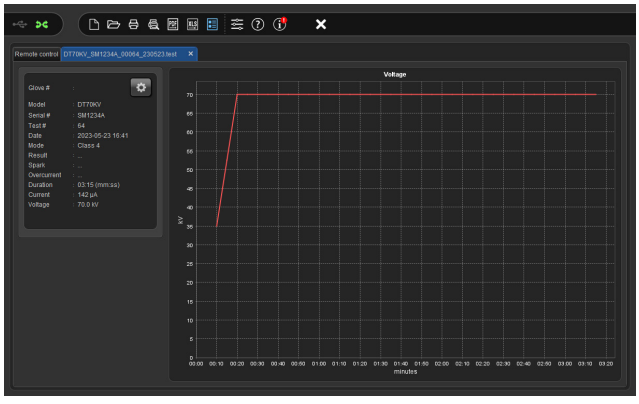
Available for download at: **www.megabras.com/megalogg**



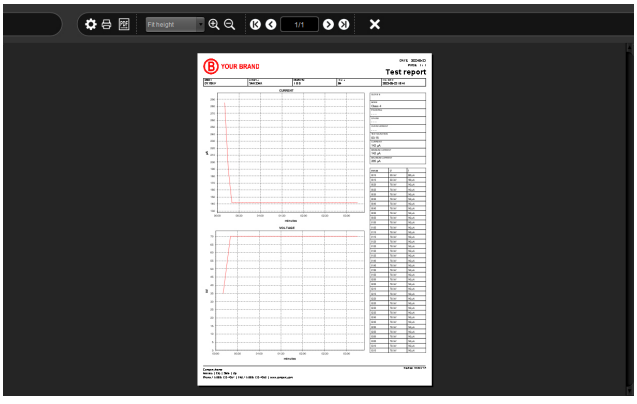
Test settings



Report settings



Charts



Report generation

Global Presence

MEGABRAS equipment are used in more than 40 countries around the world

Test & Measurement equipment

- Digital transformer ratiometer
- Earth ground testers
- Hipots
- Insulating glove tester
- Insulation testers
- Kilovoltmeters
- Micro-ohmmeters
- Power quality analyzers
- Vibration meter

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