



**CTI Tracking Tester**

**Model TRK-01**



The Model TRK-01 Tracking Tester by ED&D is used to test an insulating materials' resistance to tracking. "Tracking" is the creation of a carbon path formed on an insulating material as a result of flashovers. Our device was built specifically for the IEC, UL, CSA and ASTM product safety test requirements for CTI (Comparative Tracking Index) testing.

This tester incorporates all features for the complete test, including: platinum electrode, an electronic control for releasing the conductive drops, drop counter, adjustable current limiting, and test voltage adjustment to 600V. Precision-machined, this is a state-of-the-art tester that is considered the standard in the industry. Please specify 120V or 240V when ordering. ISO 17025 Accredited Calibration, included.



TRK-01 TRACKING TEST Apparatus, according to Standards IEC 60112 : 2003-01 and ASTM

This instrument is used to determine the resistance index against tracking of solid insulating materials at voltages up to 600 V. This voltage is used to establish the CTI (Comparative Tracking Index) and/or PTI (Proof Tracking Index) for the insulating material.

Description:

- Sheet iron structure, color lacquered RAL7032 with protection dome in clear material
- Tank for testing liquid by automatic drops falling system
- Height of drops falling =35 mm
- Drops volume = 20 + 3 mm<sup>3</sup>
- Drops gap = 30 seconds
- Platinum electrodes as per figure 1 of standard (as required for "real" rating vs. Reference data)
- Electrodes pressure force = 1+1 N
- Short-circuit failure release = 0.5A (± 10%)
- Short-circuit release lag = 2 seconds
- Switch board with Voltmeter and Ampere meter with digital reading, preselection drops counter, pushbuttons ON/OFF, STOP, START, TEST, CC/RESET
- Volt adjustment 100 - 600 V
- Switch with fuse protections
- Safety micro switch for working with closed protection only
- 4mm diameter gauge to set electrodes
- MIN and MAX volume tester on 50 drops
- Dimensions in mm: length 580 depth 480 height 700
- Connection to the mains: order as 120V or 230V 50 Hz



**PRODUCT SPECIFICATIONS:**  $\pm 2\%$  (unless otherwise indicated)

Mains Electrical Ratings: Order 120 or 230 VAC ( $\pm 10\%$ ), 50 – 60 Hz, 800W (see ratings label)  
Power Connection: Power supply cord with integral plug  
Environmental Ratings: 10 – 40 °C, indoor use only

Overall Dimensions: 19 in. D x 27 in. W x 20 in. H (48.0 x 68.0 x 53.0 cm)  
Overall Weight: 110 lbs. (50 Kg)

Test Voltage Range: 0 – 600 VAC  
Test Circuit Current: 1 A ( $\pm 0.1A$ )  
Short-Circuit Failure Release: 0.5 A ( $\pm 10\%$ )  
Short-Circuit Release Time: 2 sec. lag ( $\pm 10\%$ )

Voltage Drop: Maximum 10% voltage drop during short-circuit condition  
Ammeter:  $\pm 0.5\%$  FS,  $\pm 1$  digit  
Voltmeter:  $\pm 0.5\%$  FS,  $\pm 1$  digit  
Drop Counter Range: 1 – 9999  
Drop Volume: 20 mm<sup>3</sup> (+3, -0); 50 drops = 0.997 – 1.147 grams  
Drop Fall Height: 35 mm ( $\pm 5$  mm)  
Drop Interval: 30 sec. ( $\pm 5$  sec.)  
# of Drops: Factory set for 50 drops (see page 15 for adjustment )

Electrode Material: Platinum, purity of at least 99%  
Electrode Dimensions: 5 x 2 x 25 mm (see page 18 for diagram & tolerances )  
Electrode Downward Force: 1N ( $\pm 0.05N$ )  
Electrode Angle: 60° ( $\pm 5^\circ$ ) between electrodes (see page 18 for diagram)  
Electrode Spacing: 4 mm ( $\pm 0.1$  mm)

This product complies with **IEC 60112:2003** and other standards requiring Tracking Tests such as IEC 60335 and IEC 60950, etc. See page 18 of the manual for details.

If you would like us to determine applicability for you, please forward your specification.



**Terms and conditions of sale:**

Time of delivery	: approx. 60 working days from order/payment receipt
Goods delivered	: ex factory in Research Triangle Park, NC, USA
Packing	: included (wooden crate and padding)
Payment	: in advance
Guarantee	: 12 months (thermocouples excluded)
Manual	: step by step manual with photo details, written by experts
CALIBRATION:	: ISO 17025 Accredited + NIST-traceable Certification of Calibration
	<i>Measurement Data or Uncertainty Data available</i>
Support	: Free Lifetime Expert Level Technical Support included



**ISO 17025 Accredited by ACLASS, an ILAC Member**



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