

Fluke TL175

Fluke TL175 TwistGuard Test Leads User Manual

Model: TL175

1. INTRODUCTION

The Fluke TL175 TwistGuard Test Leads are designed for electrical measurement applications, offering enhanced safety and versatility. These test leads feature an adjustable tip shroud mechanism and a WearGuard lead wire wear indication system, ensuring reliable performance and user safety across various measurement environments. They are compatible with all instruments that accept standard 4mm shrouded banana plugs.

2. SAFETY INFORMATION

WARNING: To prevent possible electrical shock, fire, or personal injury:

- Always use the test leads with the appropriate safety category rating for the measurement environment.
- Inspect test leads for damage before each use. Do not use if insulation is damaged or if the inner contrasting color of the WearGuard system is exposed.
- Ensure the test lead tips are fully inserted into the measurement device.
- Do not apply more than the rated voltage, as marked on the test leads.
- Keep fingers behind the finger guards on the probes during measurements.
- Use caution when working with voltages above 30 V AC RMS, 42 V peak, or 60 V DC. These voltages pose a shock hazard.

3. PRODUCT FEATURES

- **TwistGuard Extendable Tip Shroud:** Patented design allows users to twist the probe handle to extend or retract the tip shroud, reducing tip exposure for higher safety categories (CAT III, CAT IV) and providing full tip exposure for lower categories (CAT II).
- **WearGuard Lead Wire Indication:** Each test lead features two layers of silicone insulation. If the outer layer is nicked or scuffed, the inner contrasting color becomes visible, indicating the need for replacement.
- **Double Insulated Silicone Leads:** Designed to withstand high temperatures and maintain flexibility

in cold conditions.

- **Extra-Heavy Duty Strain Relief:** Reinforced strain relief on both probe-end and plug-end for enhanced durability, tested beyond 30,000 bends.
- **Universal Input Plugs:** Compatible with all instruments that accept standard 4mm shrouded banana plugs.
- **Removable 4mm Lantern Tips:** Includes removable tips that thread onto the lead tip for versatile connections.



Figure 1: Overview of Fluke TL175 TwistGuard Test Leads, showing the red and black leads with their respective probe tips and banana plugs.

4. SETUP AND INSTALLATION

1. **Inspect Leads:** Before connecting, visually inspect both test leads for any signs of damage, cuts, or exposed inner insulation. If damage is found, replace the leads immediately.
2. **Connect to Instrument:** Insert the shrouded banana plugs (black for common, red for voltage/current) firmly into the corresponding input jacks of your multimeter or test instrument. Ensure a secure connection.



Figure 2: Fluke TL175 Test Leads properly connected to a digital multimeter.

3. Adjust TwistGuard Shroud: The TwistGuard feature allows you to adjust the exposed tip length.

- For CAT II measurements (e.g., wall outlets), twist the probe handle to fully expose the 19mm tip.
- For CAT III or CAT IV measurements (e.g., circuit breaker panels, main service), twist the probe handle to retract the shroud, exposing only the 4mm tip for increased safety.



Figure 3: A hand twisting the probe handle to adjust the TwistGuard tip shroud.

4. Attach Lantern Tips (Optional): If your application requires a different connection type, the included 4mm lantern tips can be threaded onto the probe tips.

5. OPERATING INSTRUCTIONS

Once properly connected and adjusted, the Fluke TL175 Test Leads function as standard test probes for your electrical measurements. Always refer to your multimeter's instruction manual for specific measurement procedures.

- **Voltage Measurement:** Select the appropriate voltage range on your multimeter. Ensure the TwistGuard shroud is set for the correct safety category. Place the black probe on the common or ground point and the red probe on the point to be measured.
- **Current Measurement:** For current measurements, ensure the red lead is connected to the correct current input jack on your multimeter (e.g., 10A or mA). The circuit must be broken to insert the meter in series.
- **Resistance/Continuity:** Select the resistance or continuity function. The leads can be used to test circuit continuity or component resistance.



Figure 4: Using a Fluke TL175 Test Lead in a circuit breaker panel, demonstrating a CAT IV application with the shroud retracted.



Figure 5: Fluke TL175 Test Leads used to test an electrical outlet, suitable for CAT II applications with tips fully exposed.

6. MAINTENANCE

- **Cleaning:** Clean the test leads with a damp cloth and mild detergent. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the leads for any signs of wear or damage, especially the WearGuard insulation. If the inner contrasting color is exposed, the leads are compromised and should be replaced to maintain safety.
- **Storage:** Store the test leads in a clean, dry environment, away from extreme temperatures and direct sunlight. Avoid sharp bends or kinks in the cables.

7. TROUBLESHOOTING

- **No Reading or Intermittent Reading:**
 - Ensure the banana plugs are fully inserted into the multimeter.
 - Check for visible damage to the lead insulation or connectors.
 - Perform a continuity test on the leads themselves by touching the tips together. If no continuity, the leads may be internally broken and require replacement.
- **Inaccurate Readings:**
 - Verify the multimeter is set to the correct function and range.
 - Ensure the test lead tips are making good contact with the circuit points.
 - Check for corrosion or dirt on the probe tips or banana plugs.

8. SPECIFICATIONS

Feature	Specification
Model Number	TL175
Safety Rating	CAT II 1000V, CAT III 1000V, CAT IV 600V, 10A maximum, Pollution Degree 2
Exposed Probe Tip Length	19mm to 4mm (0.75" to 0.16") adjustable
Lead Wire Material	Double Insulated Silicone
Operating Temperature	-20 to 55 °C (-4 to 131 °F)
Altitude	2000m (6,562')
Compliance	EN61010-031
Product Dimensions	10 x 3 x 2 inches
Item Weight	120 Grams (4.23 ounces)

What's in the Box:

- Fluke TL175 TwistGuard Test Leads (Red and Black)
- Removable 4mm Lantern Tips

9. WARRANTY AND SUPPORT

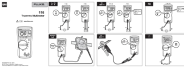
The Fluke TL175 TwistGuard Test Leads come with a 1-year warranty from the date of purchase, covering defects in materials and workmanship. For warranty claims, technical assistance, or further information, please contact Fluke Corporation customer support or visit the official Fluke website.

Manufacturer: Fluke Corporation

Date First Available: June 1, 2011

Related Documents - TL175

	Fluke 179 Digital Multimeter: Maintenance and Field Service Guide Discover the Fluke 179 True-rms Digital Multimeter, designed for efficient electrical and HVAC maintenance. Learn about its features, specifications, and recommended accessories for reliable field service.
	Fluke 106/107 Palmsized Digital Multimeters: Technical Specifications and Features Detailed technical specifications, product highlights, and general information for the Fluke 106 and 107 palmsized digital multimeters. Learn about their electrical specifications, accuracy, features, and included equipment.

	Fluke 107 Handheld CAT III Digital Multimeter - Technical Specifications Detailed technical specifications, features, and general information for the Fluke 107 handheld CAT III digital multimeter. Includes electrical measurements, safety ratings, and ordering details.
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	Fluke 110 True-RMS Multimeter: Technical Specifications and Features Detailed specifications and features of the Fluke 110 compact True-RMS multimeter, designed for precise electrical installation and troubleshooting. Includes accuracy, safety ratings, and included accessories.
	Fluke 116 True-rms Multimeter: Quick Reference Guide Quick reference guide for the Fluke 116 True-rms Multimeter, detailing its functions, measurement capabilities, and usage for electrical testing.

Documents - Fluke – TL175

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TL175 TwistGuard™ Test Leads TP175 TwistGuard™ Test Probes Guard drops AC175 Instruction Sheet Conforms to EN61010-031:2002 A1:2008. In CAT III or CAT IV environments, use the **TL175** or TP175 test probes with the probe tip guard fully extended. This decreases the exposed probe tip to reduce the ...
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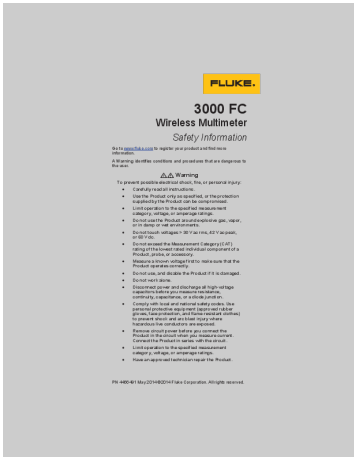
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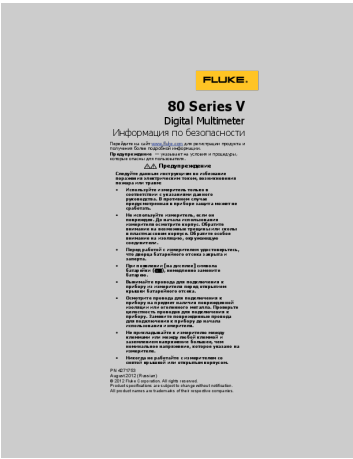


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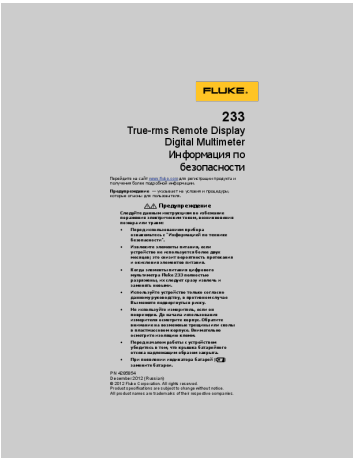


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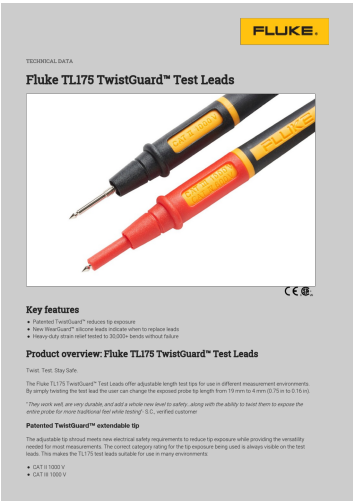


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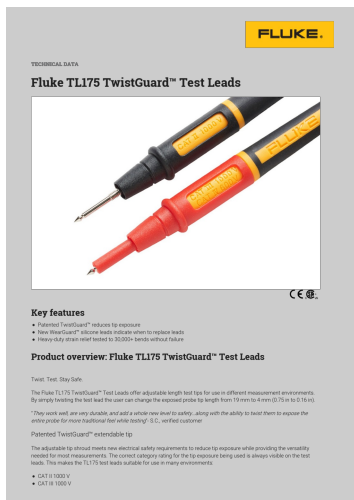
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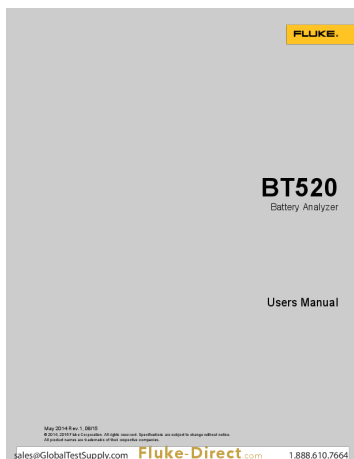
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Pontas de prova TL175 TwistGuard™



Principais recursos

Informações gerais sobre o produto: Pontas de prova TL175



Przewody pomiarowe TL175 TwistGuard™



Najważniejsze cechy



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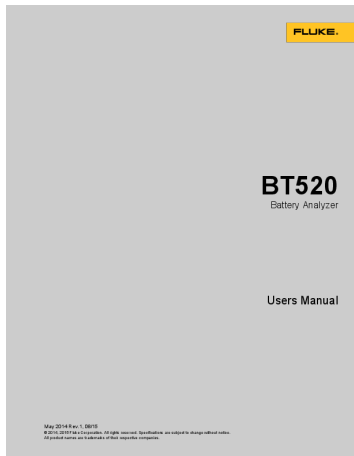


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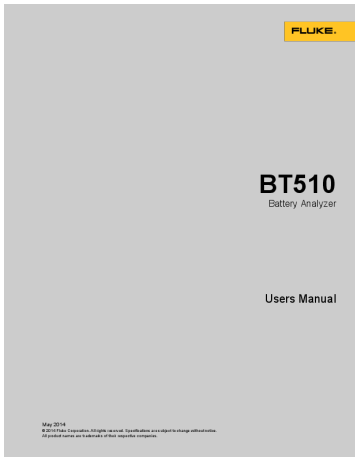


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TECHNICAL DATA

Fluke TL175 TwistGuard™ Test Leads



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Key features

- Patented TwistGuard™ reduces tip exposure
- New WearGuard™ silicone leads indicate when to replace leads
- Heavy-duty strain relief tested to 30,000 bends without failure

Product overview: Fluke TL175 TwistGuard™ Test Leads

Twist. Test. Stay Safe.

The Fluke TL175 TwistGuard™ Test Leads offer adjustable length test tips for use in different measurement environments. By simply twisting the test lead the user can change the exposed probe tip length from 15 mm to 4 mm (0.75 in to 0.15 in).

"They work well, are very durable, and add a whole new level to safety, along with the ability to twist them to expose the entire probe for more traditional test probe testing." G.C., verified customer

Patented TwistGuard™ extendable tip

The adjustable tip almost meets new electrical safety requirements to reduce tip exposure while providing the versatility needed for most measurements. The current category rating for the tip exposure being used is always visible on the test leads. This makes the TL175 test leads suitable for use in many environments.

- CAT II 1000 V
- CAT III 1000 V

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FLUKE.

Fiche technique

Cordons de mesure TL175 TwistGuard™



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Principales fonctions

- Brevetée, la gaine de la pointe extensible répond aux nouvelles normes de sécurité électrique visant à réduire l'exposition de la pointe des sondes de mesure
- Nouveaux systèmes d'indication à cause du cordon WearGuard™ Chaque cordon de mesure est recouvert de deux couches d'isolant en silicone. Dès que les cordons sont usés, usés ou abîmés et qu'ils donnent des vibrations, une couleur de contraste apparaît sur les cordons d'isolation
- Conforme en permanence à la norme de sécurité. Les sondes de mesure TL175 répondent à des températures élevées et sont résistants à la flexion et au choc
- Points de dégagement haute résistance situés à la pointe de la sonde et à l'autre extrémité de la sonde, testés pour résister à une force de 20 000 newtons sans déformation
- Fiches d'entrée secteur universelles compatibles avec tous les instruments fonctionnant avec des fiches bananes

Présentation du produit: Cordons de mesure TL175 TwistGuard™

Les cordons de mesure Fluke TL175 TwistGuard™ offrent des points de test de longueur réglable pour une utilisation dans différents environnements de mesure. Les pointes réglables TwistGuard™ améliorent la sécurité et la polyvalence des

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Fiche technique Cordons de mesure**TL175** TwistGuard™ Principales fonctions Brevetée, la gaine de la pointe extensible répond aux nouvelles normes de sécurité électrique visant à réduire l'exposition de la pointe tout en garantissant la polyvalence nécessaire pour la plupart des mesures Nouveau système d'indication...
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FLUKE.

TECHNICAL DATA

Fluke TL175 TwistGuard™ Test Leads



CE

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Key features

- Patented TwistGuard™ reduces tip exposure
- New WearGuard™ silicone leads indicate when to replace leads
- Heavy-duty strain relief tested to 30,000 bends without failure

Product overview: Fluke TL175 TwistGuard™ Test Leads

Twist. Test. Stay Safe.

The Fluke TL175 TwistGuard™ Test Leads offer adjustable length test tips for use in different measurement environments. By simply twisting the test lead the user can change the exposed probe tip length from 15 mm to 4 mm (0.75 in to 0.15 in).

"They work well, are very durable, and add a whole new level to safety, along with the ability to twist them to expose the entire probe for more traditional test probe testing." G.C., verified customer

Patented TwistGuard™ extendable tip

The adjustable tip almost meets new electrical safety requirements to reduce tip exposure while providing the versatility needed for most measurements. The current category rating for the tip exposure being used is always visible on the test leads. This makes the TL175 test leads suitable for use in many environments.

- CAT II 1000 V
- CAT III 1000 V

[pdf] Accessories

Fluke TL175 TwistGuard™ Test Leads Keeping your world up and running ® Corporation PO Box 9090
Everett WA 98206 U S A Australia Unit 26 7 Anella Ave Castle Hill NSW 2154 m fluke en au product
accessories test leads tl175 ds |||
TECHNICAL DATA Fluke **TL175** TwistGuard™ Test Leads Key features Patented TwistGuard™ reduces tip exposure New WearGuard™ silicone leads indicate when to replace leads Heavy-duty strain relief tested to 30,000 bends without failure
Product overview: Fluke **TL175** TwistGuard™ Test Leads Twist. Test....
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Fluke TL175 Set de cordons mesure sécurité Banane mâle 4 mm pointe test 1 50 m noir rouge pc s
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New Fluke **TL175** TwistGuard™ Test Leads Twist. Test. Technical Data **TL175**
 TwistGuard™ Test Leads offer: Patented TwistGuard™ extendable tip shroud that
 meets new electrical safety requirements to reduce tip exposure while providing the
 versatility needed for most measurements New WearGuard™ I...

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Ficha técnica Fluke TL175 Juego de cables prueba CAT III 1000V RS A7000000008458936 docs rs online
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Nuevos cables de prueba Fluke **TL175** TwistGuard™ Gire. Pruebe. Datos tcnicos
 Los cables de prueba **TL175** TwistGuard™ ofrecen: Cubierta extensible patentada
 para la punta, que cumple con las exigencias en materia de seguridad elctrica y que
 reduce la exposicin de la punta, proporcionando al mismo ...

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