TECHNICAL DATA

Fluke Student Troubleshooting Kit



Key features

- AC current measurements with 302+ up to 400 A, handling your everyday electrical maintenance needs
- Quick non-contact AC voltage detection with the Fluke 1AC II
- Comes with the TL75 Hard Point™ Test Lead Set offering the convenience of a test lead and probe in one unit with a variety of connections

Product overview: Fluke Student Troubleshooting Kit

Two meters. Full jobsite flexibility. Faster diagnostics.

This kit transitions electricians from basic voltage verification to efficient troubleshooting workflows. With the addition of the Fluke 302+ clamp meter, users can perform quick current readings, identify abnormal loads, and make confident go/no-go decisions without shutting down equipment.

Real world applications

- **Safety first current checks:** Check motor loads, HVAC compressors, lighting circuits without breaking the circuit—reducing exposure to energized parts and improving diagnostic safety.
- **Maintain uptime with nonintrusive measurements:** Perform current readings without shutting down live systems, boosting productivity and minimizing downtime in environments that must stay operational: panel boards, lighting circuits, motors, HVAC systems, and residential loads.

- **Wiring and outlet verification:** ST120+ ensures receptacle wiring accuracy and GFCI protection before deeper diagnostics.
- **Load and circuit evaluation:** The 302+ identifies overloads, phase imbalance, or unexpected draw in panels and branch circuits.
- **Daily service work:** Compact size and rugged build make it ideal for rapid general-purpose checks and first-pass troubleshooting.

Specifications: Fluke Student Troubleshooting Kit

	Student Essential Kit	Student Troubleshooting Kit	Apprentice Diagnostic Kit	Apprentice Dual-Meter Kit	Journeyman Diagnostic Kit
Included Tools	• 1AC II • ST120+	• 1AC II • ST120+ • 302+ • 302+	• 1AC II • ST120+ • 106 • TL75	• 1AC II • 302+ • 106 • TL75 (2X)	• 302+ • 17B+ • TL75 (2X) • K-Type Thermocouple
Part Number	6153363	6153407	6153392	6153385	6153371

	1AC II	ST120+	302+	106	17B+
CAT Safety Rating	CAT IV 1000 V	CAT III 300 V	CAT III 600 V	CAT III 600 V	CAT III 600 V
Warranty	2 years	2 years	2 years	2 years	2 years
Voltage AC	Detection 90 - 1000 V	Operating 110 - 125 V AC	600 V	600 V	1000 V
Voltage DC	—	—	600 V	600 V	1000 V
Current AC	—	—	400 A	10 A	10 A
Current DC	—	—	—	10 A	10 A
Continuity	—	—	•	•	•
Resistance	—	—	4000Ω	40 MΩ	40 MΩ
Capacitance	—	—	—	1000 µF	1000 µF
Temperature	—	—	—	—	max 400°C

Ordering information



302+/1ACII/ST+/EIC

Fluke Student Troubleshooting Kit

Part#: 6153407
UPC#: 195112170953

- 1AC II Non-Contact Voltage Tester
- ST120+ GFCI Socket Tester with Beeper
- 302+ CAT III Digital Clamp Meter
- TL75 Hard Point™ Test Lead Set

Fluke. *Keeping your world up and running.®*

Fluke Corporation
PO Box 9090, Everett, WA 98206 U.S.A.

For more information call:
In the U.S.A. (800) 443-5853
In Canada (800) 36-FLUKE
From other countries +1 (425) 446-5500
www.fluke.com

©2026 Fluke Corporation.
Specifications subject to change without notice.
11/2026

Modification of this document is not permitted without written permission from Fluke Corporation.