TECHNICAL DATA

Fluke Student Essential Kit



Key features

- **Quick voltage detection:** the 1AC II detects AC voltage from 90 V to 1000 V with bright red indication and optional beeper, ideal for switches, cords, terminal strips, and receptacles.
- **Outlet and GFCI validation:** the ST120+ identifies open ground, open neutral, reversed hot/neutral, reversed hot/ground, and performs one button GFCI tests.

Product overview: Fluke Student Essential Kit

This kit gives electricians the quickest way to check electrical safety before any work begins. With a non-contact voltage (NCV) tester rated CAT IV 1000 V and a socket tester capable of identifying six wiring conditions plus audible voltage detection, electricians can quickly confirm safe working conditions anywhere.

Real World Applications

Use cases based directly on real field workflows for entry level electricians:

- **Fast, non contact voltage detection:** Quickly check for the presence of AC voltage with clear visual and audible alerts across common electrical applications.
- **Outlet and GFCI validation:** Check for critical wiring faults and perform GFCI tests with a single tool.
- **Breaker tracing with audible alert:** the ST120+ beeper speeds panel identification by signaling energized circuits as breakers toggle.

- **Pre-task jobsite checks:** confirm safe conditions before replacing receptacles, opening panels, or beginning installation work.
- **Safety verification in commercial and residential work:** ideal for offices, hospitals, retail spaces, and multi-unit buildings.

Why It Matters

New electricians encounter everything from lighting and receptacle circuits to HVAC loads, small motors, smart home devices, and GFCI protected circuits. This kit prepares them to approach any of these environments with confidence.

Specifications: Fluke Student Essential 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



1ACII/ST+/EIC

Fluke Student Essential Kit

Part#: 6153363
UPC#: 195112170960

- 1AC II Non-Contact Voltage Tester
- ST120+ GFCI Socket Tester with Beeper

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

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