TECHNICAL DATA

Fluke Apprentice Diagnostic Kit



Key features

- AC and DC voltage measurement
- AC and DC current measurement
- Resistance measurement
- Capacitance measurement
- Quick voltage verification with the 1AC II
- Outlet and GFCI validation with the ST120+

Product overview: Fluke Apprentice Diagnostic Kit

From quick safety checks to accurate AC/DC measurements and real fault isolation

This kit expands beyond basic safety workflows to give electricians the accuracy needed for true diagnostics. With the Fluke 106, a compact, CAT III 600 V DMM, users can validate AC/DC voltage, check continuity, measure resistance, confirm current behavior, and isolate faults more accurately than with go/no-go tools alone.

Real world applications

- **Accurate AC/DC voltage validation:** verify supply voltage to motors, lighting circuits, low voltage transformers, HVAC equipment, controls, and power supplies to distinguish between line and load-side faults.
- **Continuity and resistance checks for fault isolation:** locate opens, shorts, degraded connections, or damaged

conductors.

- **Outlet and circuit verification:** pair ST120+ GFCI testing with DMM readings to confirm wiring accuracy, pair ST120+ GFCI testing with DMM readings to confirm wiring accuracy, detect open ground conditions, and ensure stable voltage delivery under load.
- **Panelboard and branch circuit diagnostics:** measure voltage drop, detect phase imbalance, verify neutral continuity, and confirm safe operating conditions before deeper work begins.
- **Low voltage system checks:** ideal for thermostats, security systems, lighting controls, and access devices.

Specifications: Fluke Apprentice Diagnostic 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



106/1ACII/ST+/EIC

Fluke Apprentice Diagnostic Kit

Part#: 6153392
UPC#: 195112170946

- 1AC II Non-Contact Voltage Tester
- ST120+ GFCI Socket Tester with Beeper
- 106 Palm-sized Digital Multimeter
- 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

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