

FLUKE®

Journeyman Diagnostic Kit

Do it right from the start



High accuracy electrical for complete system evaluation

Why it matters for apprentices

As you advance into system design, commissioning, and HVAC adjacent work, decisions depend on high-range electrical and temperature data — three signals together (V, A, °C) that reveal true system health.

This kit helps you move from component checks to complete system evaluation by combining fast current readings with Fluke 302+ and higher-accuracy AC/DC analysis with Fluke 17B+ and temperature measurements (with included thermocouple).

Real world applications

High accuracy AC/DC analysis: Measure voltage/current up to 1000 V / 10 A, plus resistance, frequency, and capacitance on the 17B+, and use Relative to zero a baseline for voltage and temperature comparisons.

Advanced load evaluation: Check running current, phase balance, and overload conditions with the 302+ (to 400 A AC, 1.8% accuracy, 30 mm jaw).

Thermal diagnostics: Assess temperature rise on motors, HVAC components, supply and return air and line sets using the K-type thermocouple included with the 17B+.

Commissioning and verification: Diagnosing drives requires TRMS measurements across relays, control boards, power supplies, and electronic components using the 17B+'s expanded functions.

Integrated electrical + thermal troubleshooting: Combine voltage, current, and temperature to pinpoint imbalance, overheating, or abnormal demand.

Included Tools



Fluke 302+ Clamp Meter

AC current to 400 A, 30 mm jaw, 1.8% accuracy, backlit, CAT III 600 V / CAT IV 300 V.



Fluke 17B+ Digital Multimeter

Up to 1000 V and 10 A; resistance, capacitance, frequency, diode checks; Relative mode (zero baseline for deltas); includes K-type thermocouple; CAT III 600 V.



TL75 Test Lead Set x 2

Hard Point™, right-angle shrouded banana plugs, CAT II 1000 V, 10 A (with protective cap: CAT IV 600 V / CAT III 1000 V).

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