

AT-6000 Advanced Wire Tracer Series

Locate and trace Energized and De-energized wires, automatically identify breakers

The AT-6000 Series, available in two different kits, combines a receiver and powerful transmitter to locate Energized and De-energized wires, breakers, fuses and easily find breaks and shorts. Whether you're a novice or an expert, Amprobe advanced wire tracers will help you get the job done fast.

The AT-6000-R Receiver detects the signal in wires and cables using two methods: active tracing method (with the Transmitter) and passive tracing method (without the Transmitter). In hard-to-reach areas, the Receiver's Tip Sensor can be used to trace wires in corners, tight spaces and junction boxes.

The AT-6000-T Transmitter works on Energized and De-energized circuits up to 600 V AC/DC in Category I through Category III electrical environments and features high signal, low signal,

and loop modes. The Breaker Identification feature eliminates confusion of multiple false positives, common with older technology tracing tools, by identifying the one correct breaker or fuse with the highest recorded signal.

The CT-400 Signal Clamp (optional for AT-6020, included with AT-6030) is used for applications where is no access to the bare conductors by enabling the AT-6000-T Transmitter to induce a signal into a wire through the insulation.



Safety Certification

All Amprobe tools, including the Amprobe AT-6000 Series, are rigorously tested for safety, accuracy, reliability, and ruggedness in our state-of-the-art test lab. In addition, Amprobe products that measure electricity are listed by a 3rd party safety lab, either UL or CSA. This system assures that Amprobe products meet or exceed safety regulations and will perform in a tough, professional environment for many years to come.





Most accurate wire tracing in its class with eight sensitivity modes



Reduce downtime with immediate and unambiguous breaker identification



Intuitive transmitter automatically senses whether the system is energized or de-energized

Main Applications

- Trace Energized and De-energized wires behind walls, ceilings or floors
- Identify breakers and fuses quickly and accurately
- Non-contact voltage mode and passive tracing without the use of the transmitter

Special Applications

- GFCI-protected circuit wire tracing
- Find breaks, openings, and shorts
- Trace wires in metal conduit
- Trace non-metallic pipes and conduits
- Trace shielded wires through signal detection in junction boxes
- Trace underground wires
- Trace low voltage wires and data cables

- Sort bundled wires
- Map circuits using test leads connection
- Trace breakers on system with light dimmers
- CT-400 signal clamp (AT-6030 kit) to improve accuracy and performance when there is no access to bare conductors



Features

| | AT-6000-R Receiver | AT-6000-T Transmitter | CT-400 Signal Clamp |
|---|---|---|---|
| Measurement category | CAT III 600 V | | CAT IV 600 V, CAT III 1000 V |
| Operating voltage | 0 to 600 V AC/DC | | 0 to 1000 V AC |
| Operating frequency | Energized: 6.25 kHz De-Energized: 32.768 kHz | | Wire tracing: 32.768 kHz AC current measurement: 45 Hz to 400 Hz |
| Hazardous voltage detection | See NCV detection | > 30 V AC/DC | – |
| Signal indications | Numeric, bar graph display and audible beep | LEDs and audible beep | – |
| Response time | Tip Sensor (energized/de-energized): 500 ms NCV: 500 ms Battery voltage monitoring: 5 sec | Line voltage monitoring: 1 sec Battery voltage monitoring: 5 sec | Instantaneous |
| Current output of signal (typical) | – | Energized circuit: HI mode: 60 mA RMS LO mode: 30 mA RMS De-energized circuit: HI mode: 130 mA RMS LO mode: 40 mA RMS Loop mode: 160 mA RMS | 1 mA/A for AC current measurement with multimeter |
| Signal voltage output (nominal) | – | De-energized circuit: LOW: 29 V RMS, 120 Vp-p HIGH: 33V RMS, 140 Vp-p With CT-400: loop model: 31 V RMS, 120 Vp-p | De-energized circuit: 2.4 V RMS, 24 Vp-p |
| Range detection (open air) | Tip sensor (Energized): Max distance via air: up to 20 ft (6.1 m) Pinpointing: approx. 1.97 in (5 cm) Tip sensor (De-energized): Max distance via air: up to 14.7 ft (4.5 m) Pinpointing: approx. 1.97 in (5 cm) NCV detection (40 to 400 Hz): Max. sensitivity: 90 V up to 6.56 ft (2 m) Min. sensitivity: 600 V up to 0.39 in (1 cm) | – | – |

Specifications

| | AT-6000-R Receiver | AT-6000-T Transmitter | CT-400 Signal Clamp |
|----------------------------------|--|--|---|
| Display size | LCD 2.5 in (6.35 cm) | LEDs | – |
| Display dimensions (W x H) | 1.45 x 1.93 in (36.72 x 48.96 mm) | – | – |
| Display resolution | 240(RGB) x 320 pixels | – | – |
| Display type | TFT-LCD (262 K) | LEDs | – |
| Display color | True, 16bit/color | Operating mode LEDs: red Battery status LEDs: green, yellow, red | – |
| Booting time | < 3 sec | < 2 sec | – |
| Backlight | • | – | – |
| Operating temperature | -4 °F to 122 °F (-20 °C to 50 °C) | | 32 °F to 122 °F (0 °C to 50 °C) |
| Operating humidity | 45%: -4 °F to <50 °F (-20 °C to <10 °C) 95%: 50 °F to <86 °F (10 °C to <30 °C) 75%: 86 °F to <104 °F (30 °C to <40 °C) 45%: 104 °F to 122 °F (40 °C to 50 °C) | | 95%: 50 °F to <86 °F (10 °C to <30 °C) 75%: 86 °F to <104 °F (30 °C to <40 °C) 45%: 104 °F to <122 °F (40 °C to <50 °C) |
| Storage temperature and humidity | -4 °F to 158 °F (-20 °C to 70 °C), <95% RH | | |
| Operating altitude | 0 to 6561 ft (2000 m) | | |
| Transient protection | – | 6.00 kV (1.2/50µS surge) | – |
| Pollution degree | 2 | | |
| IP rating | IP 52 | IP 40 | |
| Drop test | 3.28 ft (1 m) | | |
| Power supply | 4 x AA (alkaline or NiMH rechargeable) | 8 x AA (alkaline or NiMH rechargeable) | – |
| Power consumption (typical) | 110mA | Hi/Lo mode: 70 mA Loop mode with Clamp: 90 mA Consumption without signal transmission: 10 mA | – |
| Battery life | Approx. 16 h | Hi/Lo mode: approx. 25 h Loop mode: approx. 18 h | – |
| Low battery indication | • | • | – |
| Fuse | – | 1.6 A, 700 V, fast-acting, Ø 6x32mm | – |
| Maximum conductor Size | – | – | 1.26 in (32 mm) |
| Dimensions (L x W x H) | Approx. 7.2 x 2.95 x 1.69 in (183 x 75 x 43 mm) | Approx. 7.2 x 3.66 x 1.97 in (183 x 93 x 50 mm) | Approx. 5.9 x 2.75 x 1.18 in (150 x 70 x 30 mm) |
| Weight | Approx. 1.25 lb (0.57 kg) | Approx. 6.18 lb (2.8 kg) | Approx. 0.25 lb (0.114 kg) |
| Certifications | | | |

NOTE: Refer to user manual for ADPTR-SCT and TL-6000 specifications.

Included in Wire Tracer Kits

| | AT-6020 | AT-6030 |
|--|------------|---------|
| AT-6000-R Receiver | • | • |
| AT-6000-T Transmitter | • | • |
| TL-6000 Test Lead and Accessory Kit | • | • |
| CC-6000 Hard Carrying Case | • | • |
| User Manual | • | • |
| 12 - Rechargeable Batteries (not installed) | – | • |
| 3 - Battery Chargers | – | • |
| CT-400 Signal Clamp | (Optional) | • |
| 12 - 1.5 V AA (IEC R6) Batteries (not installed) | • | – |

Battery chargers and batteries are not available to order separately.



AT-6020



AT-6030

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