AMPROBE®

AT-6010 Advanced Wire Tracer Kit

Wire tracing made simple

With the AT-6010 Advanced Wire Tracer, it's never been easier and safer to locate Energized and De-energized wires, breakers and fuses. When the Transmitter is connected to the circuit, the Receiver easily detects the signal in the wires or cables behind walls, ceilings and floors. The Transmitter works on Energized and De-energized circuits up to 600 V AC/DC in Category I through Category III electrical environments, allowing for work directly on an energized circuit without the need to take equipment offline. The Transmitter also features high signal mode for general tracing and a loop mode designed specifically for locating shorts, as well as two optimal tracing frequencies that are automatically activated based on the detected voltage. The complete AT-6010 kit features test leads and accessories International accessory kit for use outside North America.

Features

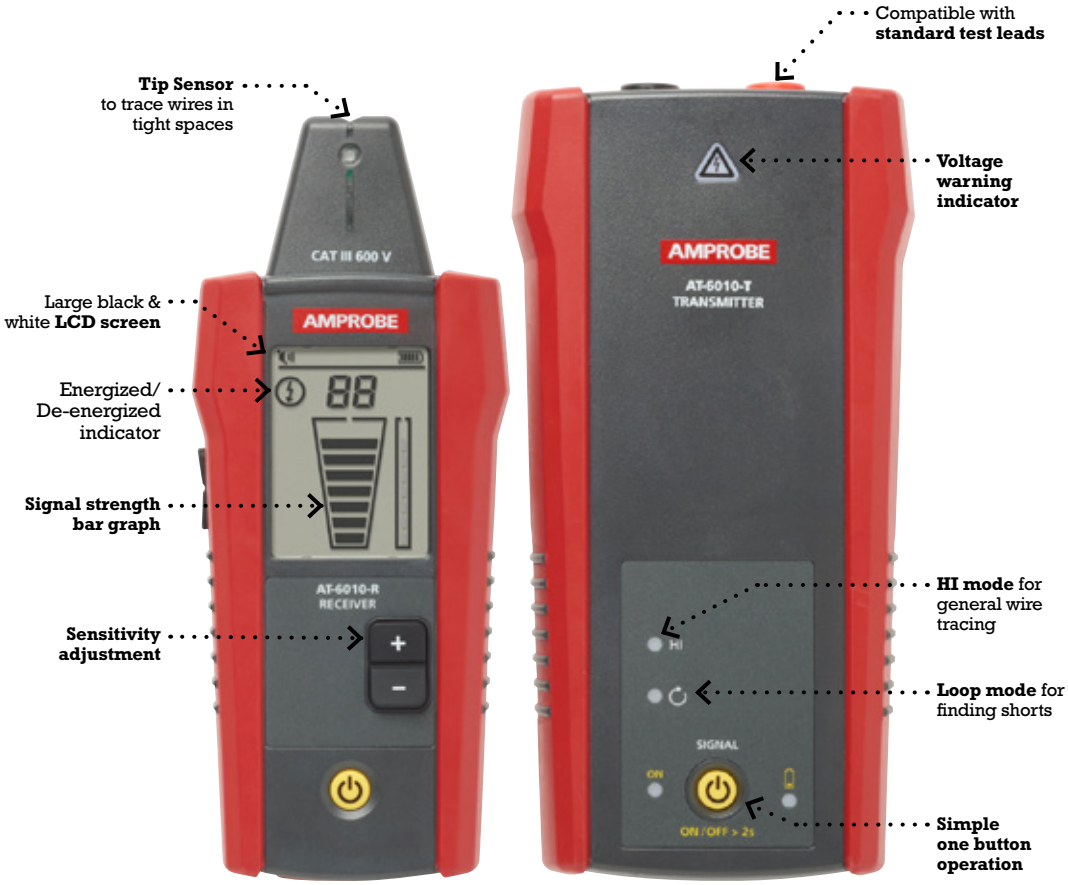
- **Large LCD Receiver screen** with two digit readout, bar graph and sound to easily determine wire location
- **Simple one button Transmitter operation**
- **Compatible with the CT-400 Signal Clamp accessory** for inducing a tracing signal on the cable when there is no access to bare conductors

Main Applications

- Trace energized and de-energized wires
- Identify breakers and fuses

Special Applications

- Connect to GFCI protected circuits
- Find breaks and opens
- Find shorts
- Trace wires in metal conduit
- Trace non-metallic pipes and conduit
- Trace shielded wires
- Trace underground wires
- Trace low voltage wires and data cables
- Sort bundled wires
- Map a circuit with test leads
- Trace breakers on system with light dimmers
- Signal clamp- closed loop circuits
- Signal clamp- mapping circuits



AT-6010-R Receiver

AT-6010-T Transmitter

Safety Certification

All Amprobe tools, including the Amprobe AT-6010, 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.

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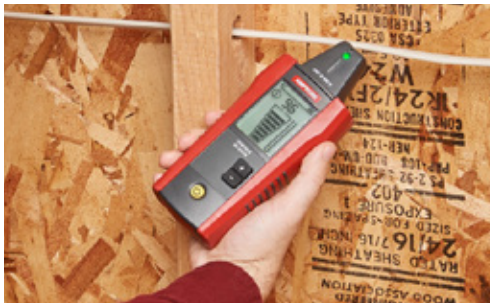
The CT-400 Signal Clamp is an optional accessory, not included in the AT-6010 Kit.

Features and specifications

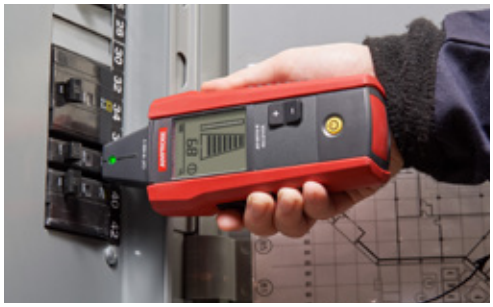
Features	AT-6010-R Receiver	AT-6010-T Transmitter	CT-400 Signal Clamp
Measurement category	CAT III 600 V	CAT III 600 V	CAT IV 600 V, CAT III 1000 V
Operating voltage	0 to 600 V AC/DC	0 to 600 V AC/DC	0 to 1000 V AC
Operating frequency	Energized: 6.25 kHz, De-Energized: 32.768 kHz	Energized: 6.25 kHz, De-Energized: 32.768 kHz	Wire tracing: 32.768 kHz AC current measurement: 45 Hz to 400 Hz
Hazardous voltage detection	–	> 30 V AC/DC	–
Signal indications	Numeric, bar graph display and audible beep	LEDs	–
Response time	Tip Sensor (Energized/De-energized): 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 **De-energized circuit:** HI mode: 130 mA RMS Loop mode: 160 mA RMS	1 mA/A for AC current measurement with multimeter
Signal voltage output (nominal)	–	**De-energized circuit:** HIGH: 33V RMS, 140 Vp-p **With CT-400:** loop mode: 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)	–	–

Specifications			
Display size	LCD 2.5 in (6.35 cm)	–	–
Display dimensions (W x H)	1.45 x 1.93 in (36.72 x 48.96 mm)	–	–
Display type	Segment LCD	LEDs	–
Display color	Black and white	Operating mode LEDs: red, Battery status LEDs: 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		-4 °F to 158 °F (-20 °C to 70 °C), <95% RH
Operating altitude	0 to 6561 ft (2000 m)		0 to 6561 ft (2000 m)
Transient protection	–	6.00 kV (1.2/50µS surge)	–
Pollution degree	2	2	2
IP rating	IP 52	IP 40	IP 40
Drop test	3.28 ft (1 m)	3.28 ft (1 m)	3.28 ft (1 m)
Power supply	4 x AA (alkaline)	8 x AA (alkaline)	–
Power consumption (typical)	70 mA	Hi mode: 70 mA Loop mode with Clamp: 90 mA Consumption without signal transmission: 10 mA	–
Battery life	Approx. 25 h	Hi 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. 0.6 lb (0.27 kg)	Approx. 1.25 lb (0.57 kg)	Approx. 0.25 lb (0.114 kg)
Certifications			

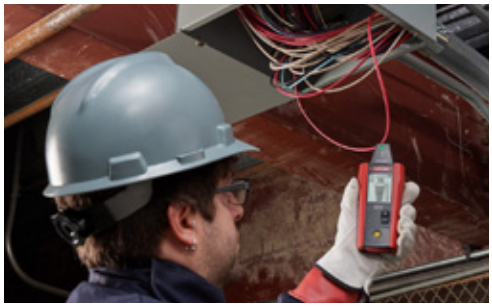
NOTE: Refer to user manual for accessory specifications



Trace energized and de-energized wires



Identify the single correct breaker



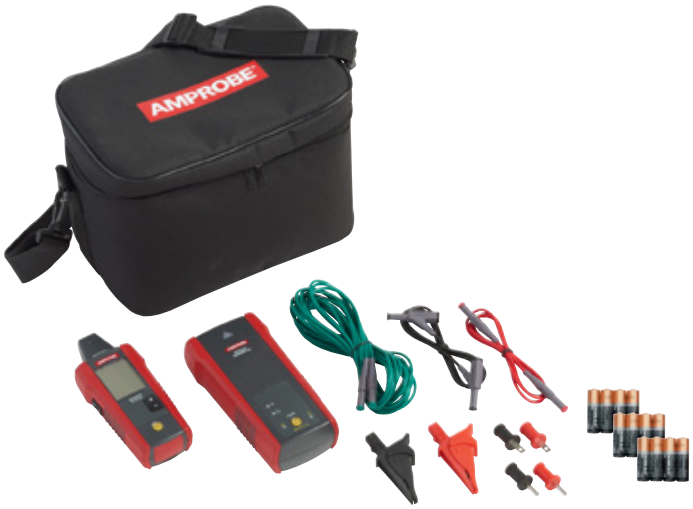
Locate a specific wire

AMPROBE®

AT-6000 Series
Advanced Wire Tracer
Comparison Chart



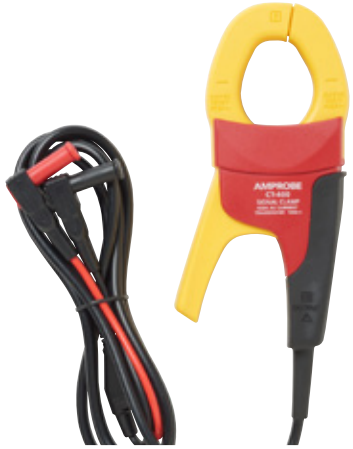
	AT-6010	AT-6020	AT-6030
Measurement Category	CAT III 600 V	CAT III 600 V	CAT III 600 V
Traces energized and de-energized wires	•	•	•
Locates energized and de-energized breakers and fuses	•	•	•
Receiver "Breaker Identification" mode to instantly identify the correct breaker	–	•	•
Finds shorts and opens	•	•	•
Transmitter "Loop" mode for closed loop de-energized circuits	•	•	•
Non-contact voltage detection	–	•	•
Two frequency modes for optimal tracing in energized (6 kHz) and de-energized (33 kHz) circuits	•	•	•
Transmitter Operating Voltage	0 to 600 V AC/DC	0 to 600 V AC/DC	0 to 600 V AC/DC
Receiver Display	B&W 2.5" LCD	Color 2.5" LCD	Color 2.5" LCD
Rechargeable Batteries	–	–	•
Signal clamp attachment to induce signal	(optional accessory)	(optional accessory)	•



Included in the AT-6010 Wire Tracer Kit

	AT-6010
At-6010-R Receiver	1
At-6010-T Transmitter	1
Tl-6000-INTL Test Lead And Accessory Kit*	1
Cc-6010 Soft Carrying Case	1
User Manual	1
1.5 V AA (Iec Lr6) Battery	12

***TL-6000-INTL test lead and accessory kit includes:**
- 2 x 1 m test leads (red, black)
- 1 x 7 m test lead (green)
- 2 x Alligator clips (red, black)
- 2 x Outlet blade adapter (red, black)
- 2 x Outlet round adapter (red, black)



Optional Accessories	Description
ADPTR-SCT	Socket adapter
HS-1	Magnetic hanger
TL-7000-25M	Test lead
CT-400	Signal clamp

CT-400
Signal Clamp

The CT-400 Signal Clamp is an optional accessory, not included in the AT-6010 Kit.