

AT-8000 Advanced Industrial Wire Tracer Series

CAT IV 600 V Safety Rated for Industrial Environments and Electrical Systems

Patented Smart Sensor™ displays the location and orientation of energized wires

Designed to keep electricians safe - CAT IV 600 V rated for the highest protection available on any wire tracer. Electricians are protected from the most dangerous level of transient overvoltage spikes up to 8,000 V that are known to occur in industrial environments.

Save time, no blind searching - See hidden wires like never before with the AT-8000-R Receiver's patented Smart Sensor™, which finds and displays the location and orientation of energized wires in walls, floors and ceilings on the large color TFT LCD screen. The Scan

and Locate feature clearly identifies the single correct breaker or fuse, eliminating the confusion from multiple false positive readings common in older technology tracing tools. Embedded help screens make set-up easy and error free for novice users and experts alike.

Featuring three power modes "high", "low", and "loop" and two output frequencies (6 kHz and 33 kHz), the AT-8000-T Transmitter incorporates the best technologies available for optimal wire tracing and breaker identification on both energized and de-energized circuits. The

AT-8000-T automatically sets the signal based on detected voltage and prompts the user to set the power level based on the application, delivering consistently accurate results.







Features

- Trace Energized and De-energized wires in walls, ceilings, floors and tight spaces
- Identify breakers and fuses
- Pinpoints shorts and opens
- Non-contact voltage mode and passive
- High resolution 3.5 in (89 mm) TFT LCD color display
- Three power modes
 - "High" power mode for normal circuits
 - "Low" power mode for precision tracing in difficult areas
 - "Loop" power mode provides a boosted signal using the signal clamp

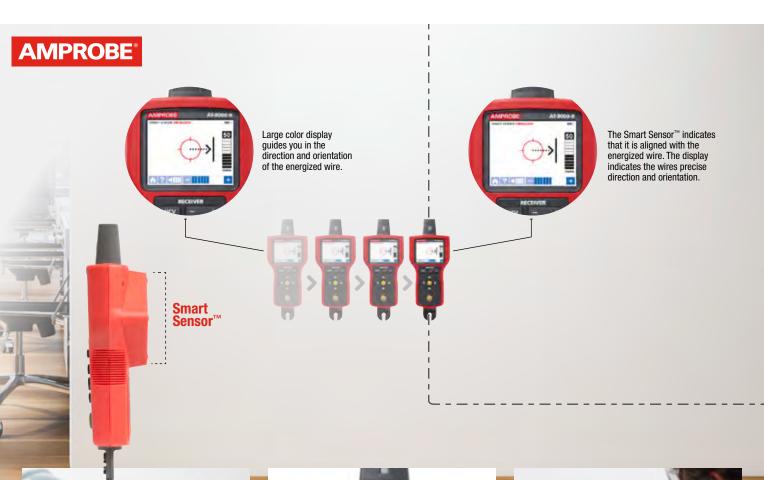
- Two automatically selected frequency modes for optimal tracing on energized and de-energized circuits
- Optional CT-400 Signal Clamp for inducing signal into wires without access to bare conductors (included in the AT-8030 Kit only)
- Embedded help screens for easy, error free set-up



Safety Certification

All Amprobe tools, including the Amprobe AT-8000, 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.





Smart Sensor[™]

Quickly and easily determine the precise direction and location of energized wires in walls, floors and ceilings with the patented Smart Sensor™. Combined with a fast signal processor that measures small changes in the detected signal multiple times per second with unmatched precision and ease of use for tracing energized wires.

CAT IV 600 V Safety Rated

In harsh industrial environments where threephase motors work to provide energy for many machines in large scale operations, protection from transient spike events is of high concern for electricians and facility maintenance. The AT-8000 Series introduces a new standard of protection for those who work in industrial environments with a CAT IV 600 V rating, bringing electrical safety to a level never before seen in a wire tracer.



Breaker and Fuse Identification

Combined with the powerful Transmitter utilizing optimal frequencies for energized and de-energized tracing, the Receiver's Scan and Locate feature identifies the one correct breaker or fuse with the highest recorded signal.





Tip Sensor

The shape of the Tip Sensor allows tracing in hard to reach areas, corners & tight spaces, as well as precise circuit breaker and fuse identification. By utilizing two different types of antennas (inductive coil and capacitive), the tip sensor enables optimal tracing results of both energized and de-energized circuits, which are automatically selected by operating mode.



Special Applications:

- RCD-protected circuit wire tracing
- Find breaks, openings, and shorts
- Trace:
 - wires in non-metallic pipes and conduits
 - wires in metal conduit
 - shielded wires
 - underground wires
- low voltage wires and data cables
- **Sort** Bundled Wires
- Map a Circuit using Test Leads Connection
- Trace Breakers/Fuses on Systems with Light Dimmers
- Signal Clamp Closed Loop/Mapping Circuits

Applications:

- Trace Energized and De-energized wires
- **Identify** breakers and fuses
- Non-contact voltage mode and passive tracing
- Ideal for older industrial environments where wire locations are not well documented



Signal Clamp

When there's no access to bare conductors, use the CT-400 signal clamp to induce a signal into either energized or de-energized circuits for wire tracing and load locating. The AT-8000-T Transmitter's "loop" mode provides a boosted 6 kHz signal through the clamp to further improve accuracy and performance. Simply clamp around the desired wire to induce the signal, then begin tracing.



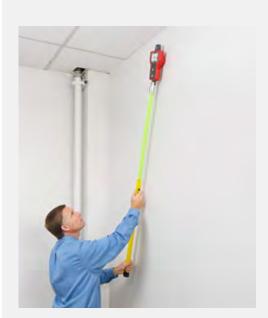
Trace Wires Inside Conduit

Trace energized and de-energized wires enclosed in metal conduit by removing the junction box cover and use the AT-8000-R Receiver's Tip Sensor to identify the specific wire carrying the transmitted signal generated by the AT-8000-T Transmitter. Wires in non-metal conduit can be traced directly without opening the junction box and using the AT-8000-R Receiver's Smart Sensor™.



Non-contact Voltage Detection

The NCV feature extends functionality of the AT-8000-R Receiver by detecting energized wires from 90 to 600 V and 40 to 400 Hz without the use of the AT-8000-T Transmitter. Its adjustable sensitivity fits a range of applications, from detecting voltage (higher sensitivity) to precisely pinpointing line/phase wire in a bundle (lower sensitivity).



TIC 410A Hot Stick Attachment

To enable easier tracing of wires in high ceilings, walls and along floors, and more difficult to reach areas, a universal attachment bracket for connection to the optional TIC 410A Hot Stick accessory is included.

- Attaches to the AT-8000-R to extend your reach
- · Also compatible with the AT-6000 Series Advanced Wire Tracers
- Expands to 57" long and collapses to 33" for easy storage







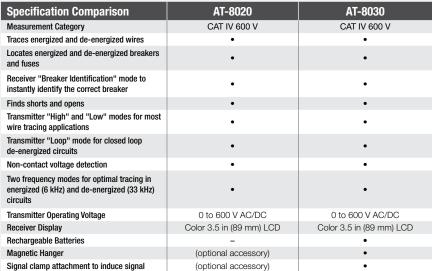


The CT-400 Signal Clamp is an optional accessory, included only in the AT-8030 kit.

Operating affluide				
Signate Section Sect	Specifications	AT-8000-R Receiver	AT-8000-T Transmitter	
Signate Size	Measurement Category	CAT IV 600 V	CAT IV 600 V	CAT IV 600 V, CAT III 1000
Display Properties		3.5 in (8.9 cm)	(LED signals)	_
Display Properties	Display Dimensions (W x H)	2.76 x 2.07 in (70 x 52 mm)	_	_
Display type Dock TPT(0)			_	_
Color Depuly Color Depuly Color Of Depuly Color Of Depuls	• •	, ,	_	_
Southing times Subsection			_	_
Contracting models LIDE need February Signal Defaction Contract Violence Contract Vi	• •	30 sec	< 2 sec	_
Committee Comm	*	•	12 300	
Commentation Comm	-	•	Operating mode LEDs: red	
4 Fin x x x x x x x x x x x x x x x x x x x	LED Indicator	Green Flashing: Signal Detection		-
Sperating Humidity	Operating Temperature range	-4 °F to 122 °F (-20 °C to 50 °C)	-4 °F to 122 °F (-20 °C to 50 °C)	-4 °F to 122 °F (-20 °C to 50 °C)
Operating attlude	Operating Humidity	50 °F to <86 °F (95%: 10 °C to <30 °C) 86 °F to <104 °F (75%: 30 °C to <40 °C)	50 °F to <86 °F (95%: 10 °C to <30 °C) 86 °F to <104 °F (75%: 30 °C to <40 °C)	86 °F to <104 °F (75%: 30 °C to <40 °C)
Transient protection	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	-4 °F to 140 °F (-20 °C to 60 °C), ≤ 95% RH
Pollution degree 2	Operating altitude	0 to 6561 ft (0 to 2000 m)	0 to 6561 ft (0 to 2000 m)	0 to 6561 ft (0 to 2000 m)
P Rating	Transient protection	_	8.00 kV (1.2/50µS surge)	-
Available to Avai	Pollution degree	2	2	2
A x AA (akaline or NiMH rechargeable)	P Rating	IP 52	IP 40	IP 40
Power Supply	•			3.28 ft (1 m)
Consumption	•	4 x AA (alkaline or NiMH rechargeable)	8 x AA (alkaline or NiMH rechargeable)	
Loop mode: approx. 18 h			Hi/Lo mode: 70 mA Loop mode with Clamp: 90 mA	-
Public	Battery life	Approx. 9 h		-
Maximum conductor size	_ow battery indication	•		-
Askimum conductor size	-use	_		-
Separate	Maximum conductor size	_	9 0x3211111 -	1.26 in (32 mm)
Solidage		Tip Sensor Energized: 300 ms Tip Sensor De-Energized: 750 ms		
Non-Contact Voltage (NCV) 90-600 V AC	Voltage Warning Indicator	- Nov. 300 ms, Battery monitoring. 3 s	> 30 V AC/DC	_
Audible beep, bargraph display, numeric display Departing Frequency Departing Frequenc	•	90-600 V AC	-	_
Departing Frequency	- ' '		LEDs and audible been	_
De-Energizead: 32.768 kHz	Signal mulcations		· ·	Loop Mode: C OF Id In
SmartSensor** Prinpointing: Around 2 in (5 cm) radius (+ - 2%) Direction indication: Up to 5 ft (1.52 m) (+ - 2%) Tip sensor (Energized): Prinpointing: Around 2 in (5 cm) (+ - 1%) Detection: Up to 12 ft (6.7 m) (+ - 1%) Tip sensor (De-energized): Prinpointing: Around 2 in (5 cm) radius (+ - 5%) NCV detection: Up to 14 ft (1.3 m) (+ - 5%) NCV detection: Up to 14 ft (1.3 m) (+ - 5%) NCV detection: Up to 14 ft (1.2 m) (+ - 5%) Detection: Up to 4 ft (1.2 m) (+ - 5%) Detection: Up to 4 ft (1.2 m) (+ - 5%) Energized circuit: H mode: 60 mA RMS LO mode: 30 mA RMS LO mode: 30 mA RMS LO mode: 130 mA RMS LO mode: 140 mA RMS LO mode: 150 mA RMS LO mo	Operating Frequency			
Pinpointing: Around 2 in (5 cm) radius (+ - 2%) Direction indication: Up to 5 ft (1.52 m) (+ - 2%) Tip sensor (Energized): Pinpointing: Around 2 in (5 cm) (+ - 1%) Detection: Up to 2 ft (6.7 m) (+ - 1%) Tip sensor (16 cm) (4 cm) (4 - 1%) Tip sensor (16 cm) (4 cm) (Acoustic Indication	Piezo Buzzer	Audible beep	-
HI mode: 60 mA RMS LO mode: 30 mA RMS LO mode: 30 mA RMS De-energized circuit: HI mode: 130 mA RMS LO mode: 40 mA RMS LO mo	Range Detection (Open air)	Pinpointing: Around 2 in (5 cm) radius (+ - 2%) Direction indication: Up to 5 ft (1.52 m) (+ - 2%) Tip sensor (Energized): Pinpointing: Around 2 in (5 cm) (+ - 1%) Detection: Up to 22 ft (6.7 m) (+ - 1%) Tip sensor (De-energized): Detection: Up to 14 ft (4.3 m) (+ - 5%) NCV detection (40 to 400 Hz): Pinpointing: Around 2 in (5 cm) radius (+ - 5%)	-	-
Company	Current Output of signal (typical)	-	HI mode: 60 mA RMS LO mode: 30 mA RMS De-energized circuit: HI mode: 130 mA RMS LO mode: 40 mA RMS	<u>-</u>
Dimensions (L x W x H) (278 x 113 x 65 mm) (183 x 93 x 50 mm) (150 x 70 x 30 mm) Weight 1.20 lb (0.544 kg) Approx. 1.25 lb (0.57 kg) Approx. 0.25 lb (0.114 kg)	Signal voltage output (nominal)	-	LOW: 29 V RMS, 120 Vp-p HIGH: 33V RMS, 140 Vp-p	-
Weight 1.20 lb (0.544 kg) Approx. 1.25 lb (0.57 kg) Approx. 0.25 lb (0.114 kg)	Dimensions (L x W x H)			
	Weight	·		·
	Certifications	. © ., C € . &	. © C € . &	

AMPROBE[®]







Kit Contents	AT-8020	AT-8030
AT-8000-R Receiver	1	1
AT-8000-T Transmitter	1	1
TL-8000 Test Lead And Accessory Kit*	1	1
CC-8000 Hard Carrying Case	1	1
User Manual & QSG	1	1
1.5 V AA (IEC LR6) Batteries	12	-
Battery Chargers	-	3
Rechargeable Batteries	-	12
CT-400 Signal Clamp	-	1
HS-1 Magnetic Hanger	-	1



Specifications	TL-8000
Measurement Category	CAT IV 600 V (test leads and alligator clips) CAT II 1000V (test probes)
Operating voltage and current	600 V, 10 A max. (red/black leads), 600 V, 6 A max. (green lead) 600 V, 10 A max. (alligator clips), 1000 V, 8 A max. (test probes)
Operating temperature	32 °F to 122 °F (0 °C to 50 °C)
Operating Humidity	95%: 50 °F to <86 °F (10 °C to <30 °C) 75%: 86 °F to <104 °F 3 (0 °C to <40 °C) 45%: 104 °F to <122 °F (40 °C to <50 °C)
Storage temperature and humidity	-4 °F to 140 °F (-20 °C to 60 °C), ≤ 95% RH
Operating altitude	0 to 6561 ft (2000 m)
Pollution degree	2
IP Rating	IP 20
Drop test	3.28 ft (1 m)
Dimensions	Red/black leads: 3.28 ft (1 m), Green lead: 22.97 ft (7 m) Alligator clips: approx. 3.74 x 1.77 x 0.94 in (95 x 45 x 24 mm) Test probes: approx. 5.28 x 0.91 x 0.55 in (134 x 23 x 14 mm)
Weight	Approx. 0.88 lb (0.4 kg)
Certifications	. ⊕ ., (€



ADPTR-SCT Socket Adapter Optional Accessory



HS-1 Magnetic Hanger Optional Accessory



Optional Accessories				
ADPTR-SCT	Socket adapter			
HS-1	Magnetic hanger			
TL-8000-25M	Test lead			
CT-400	Signal clamp			

TL-8000 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 adapters (red, black) 2 x Outlet round adapters (red, black)