

UAT-505 Underground Utility Locator Kit Detect and measure depth of buried pipes and cables

Increase productivity on the job site with precise with accurate locating

The Amprobe UAT-505 Underground Utility Locator Kit is the rugged, economical solution for locating underground energized and de-energized wires, cables and pipes. The Transmitter utilizes the proven 33 kHz frequency, which is ideal for most locating applications. With the Receiver, trace the signal in Induction or Direct Test Leads Connection Modes. The Receiver features fast sound and meter response and easy depth measurements to 20 feet at the push of a button, as well as highly sensitive Power and Radio Modes which detect energized wires and radio signals on underground lines.

Features

- Locates underground energized and de-energized wires and cables
- Locates underground metal pipes
- **Multiple tracing modes** for locating and tracing energized and de-energized utilities in a variety of applications: Power Mode, Radio Mode, Induction Mode and Direct Test Leads Connection Mode
- Depth measurement up to 20 ft, detect and trace utilities buried up to 100 ft deep (Direct Test Leads Connection Mode only)
- Receiver features a high-contrast display with an automatic backlight and semi-automatic gain control

for fast signal location and control

- 33 kHz transmitting frequency: best frequency for general locating
- Complete ready-to-use kit: Receiver, Transmitter, test leads, batteries and carrying case



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Identify Underground Pipes, Cables & Wires

The Amprobe UAT-505 discovers the location of underground utilities such as sewer lines, power lines and water lines up to 100 feet deep, with accurate depth measurement to 20 feet when connected to the Transmitter. The Transmitter operates at a 33 kilohertz (kHz) frequency signal, which provides the most reliable results for many locating applications. The kit also comes with a connection cables and alligator clips for connecting the transmitter to the buried pipe or de-energized cable or wire to be traced.

Expert Features for Any Situation

The UAT-505 can be used in different modes for optimal tracing in many situations.

Receiver

- Power Mode locates energized wires with a 50/60 Hz frequency. The Receiver alone detects the electromagnetic fields emitted by buried energized lines conducting currents.
- Radio Mode uses the Receiver to detect radio waves coming from cellular towers, radio stations, etc. that are picked up and carried by underground metal objects, such as cables or pipes.

Receiver + Transmitter

- Induction Mode uses the Transmitter to wirelessly induce a signal into a buried pipe, cable, or wire. The Receiver then detects the signal carried by the buried utility.
- In Direct Test Leads Connection Mode, the Transmitter is connected to the buried de-energized cables or utilities with test leads (provided there is an available access point to the utility). The Transmitter then sends a signal across the wire or pipe.*
- If it is not possible to gain access to a cable for making an electrical contact or it is not safe to do so, the optional Signal Clamp provides an efficient and safe method of applying a locate signal to a cable.

The UAT-505 can also trace non-metallic pipes in Induction or Direct Test Leads Connection Modes. Some of these pipes have embedded metal trace that will conduct signal for tracing. For pipes without embedded metal, use a conductive tracing tape.

*Note:

CAT Rating

Transmitter frequency (direct connection)

Direct connection to

energized circuits De-energized circuit tracing Included signal clamp

The UAT-500-T Transmitter **should never** be connected to an energized circuit. The Amprobe UAT-600-T Transmitter, safety rated CAT IV 600 V, can be safely used to connect to energized circuits.

Amprobe Underground Locator Kit Comparison **UAT-505**

33 kHz

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UAT-610

CAT IV 600 V

8 kHz and 33 kHz

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UAT-505 Kit Contents

	UAT-505
UAT-600-R Receiver	1
UAT-500-T Transmitter	1
CC-UAT-500 Carrying Case	1
TL-UAT-500 Test Leads Kit*	1
1.5 V AA (IEC LR6) Batteries (Receiver)	6
1.5 V D (IEC LR20) Batteries (Transmitter)	4
User Manual	1

*TL-UAT-500 Test Leads Kit includes:

Green test lead with detachable green alligator clip

Gray test lead with permanently attached gray alligator clip

Ground stake

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UAT-620

CAT IV 600 V

8 kHz and 33 kHz





Specifications

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Laceting modesIndex and MullIndex index inde	Output voltage	_	Max. 35 V rms	
Sensitivity adjustment (gain control)	Output current	-	Max. 100 mA rms	
Depth measurement Up to 20 ft (m)	Locating modes	Peak and Null	-	
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Safety complianceCSA/UL 61010-1, CSA/UL 61010-2-033IEC 61010-031, CSA/UL 61010-031 (test leads)Electromagnetic CompatibilityIEC 61326-1 Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment) [1]IEC 61326-1 Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment) [1]IEC 61326-1 Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment) [1]Electromagnetic Compatibility[1] This product meets requirements for industrial (Class A) electromagnetic equipment is intended for use in business environments and is not to be used in homes.IEC 61326-1 Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment) [1]Size (H x W x L)Approx. 11.9 x 4.7 x 30.7 in (302 x 120 x 779 mm)Approx. 18.1 x 3.5 x 2.6 in (460 x 90 x 65 mm)	Agency approval	. @ ., C € ∠⊗ 1%	. @ ., C € ▲ K	
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	Electromagnetic Compatibility	Communication Equipment) [1] [1] This product meets requirements for industrial (Class A) electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and is not to be	Communication Equipment) [1] [1] This product meets requirements for industrial (Class A) electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and is not to be	
Weight Approx. 4.2 lb (1.9 kg) (batteries installed) Approx. 3.9 lb (1.77 kg) (batteries installed)				
	Weight	Approx. 4.2 lb (1.9 kg) (batteries installed)	Approx. 3.9 lb (1.77 kg) (batteries installed)	

TL-UAT-500 Test Leads

	TL-UAT-500 Test Leads
Operating voltage and current	50 V max, 1 A
eads length	11.5 ft (3.5 m)
mpatible transmitter	UAT-500-T Transmitter
perating temperature and humidity	-4 °F to 122 °F (-20 °C to 50 °C), \leq 80% RH
orage temperature and humidity	-40 °F to 140 °F (-40 °C to 60 °C), $\leq 80\%$ RH
erating altitude	< 6561 ft (< 2000 m)
ollution degree	2
ency approval	∭u, C€
fety compliance	IEC 61010-031, CSA/UL 61010-031
ze (H x W x L)	Approx. 9 x 3.5 x 3.1 in (230 x 90 x 80 mm)
/eight	Approx. 1.1 lb (0.5 kg)
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TL-UAT-500 Test Leads Kit includes: Green test lead with detachable green alligator clip, Gray test lead with permanently attached gray alligator clip, Ground stake

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Optional Accessories

AF-600 A-Frame ground fault locator, UAT-600-T Transmitter, SC-600 Signal clamp, TL-600-25M Extension test lead



AF-600 A-Frame Ground Fault Locator

- Identify any point of leakage around a cable
- Locate cable and wire ground faults, sheath faults or pipeline coating defects, where the utility is in direct contact with the ground
- Find the exact point where metal is touching the ground and power is leaking, ie, a shield is rusted or a rubber buffer is broken, creating noise on a cable
- Advanced technology and digital signal processing makes pinpointing process fast, accurate and clear:
 - **Compass guidance** with numeric fault field strength indicates the direction of the fault
 - Distance sensitive left and right arrows guides the user to precisely follow the path of the buried utility
 - Automatic gain control quickly detects tracing signal and precisely adjusts the A-Frame sensitivity
 - Adjustable volume controls

	AF-600 A-Frame
Tracing mode (de-energized)	8 kHz
Locating mode	Ground fault locating
Sensitivity (typical)	Cable locate mode at 1 meter depth: 10 uA Fault locate mode: up to 2 MΩ fault
Display backlight	Automatic
Audio indication	Speaker indicates left/right by pulsed/ continuous tone
Compatible transmitter	UAT-600-T Transmitter
Display	1.28 in, 128 x 128 BW outdoor LCD display with auto backlight
Update rate	Instantaneous
Operating temperature and humidity	-4 °F to 122 °F (-20 °C to 50 °C), ≤90% RH
Storage temperature and humidity	-40 °F to 140 °F (-40 °C to 60 °C), ≤90% RH
Operating altitude	< 6561 ft (< 2000 m)
Pollution degree	2
Water and dust resistance	IP54
Drop proof	3.28 ft (1 m)
Power supply	(6) 1.5 V AA alkaline batteries
Auto power off	15 minutes idle
Battery life	Approx. 60 hours at 70 °F (21 °C) (Typical)
Certifications	. @: < < &
Safety compliance	IEC 61010-1, CSA/UL 61010-1
Size (H x W x L)	Approx. 14 x 9 x 4.7 in (355 x 230 x 120 mm)
Weight	Approx. 4.2 lb (1.9 kg) (batteries installed)
AF-600 A-Frame includes: A-Frame Receiver (6) 1.5 V AA (IEC L B6) Batteries. Carrying Case	

AF-600 A-Frame includes: A-Frame Receiver, (6) 1.5 V AA (IEC LR6) Batteries, Carrying Case, User Manual



UAT-600-T Transmitter

This intuitive Transmitter automatically chooses the correct locating function based on the connected accessory and includes selectable 8/33 kHz frequencies.

	UAT-600-T Transmitter
Measurement category	CAT IV 600 V
Operating voltage/current	0 to 600 V
Operating frequency/tracing modes	Energized circuit Induction mode: 33 kHz Direct connection modes: 8 kHz and 33 kHz Clamp mode: 8 kHz and 33 kHz De-Energized circuit Induction mode: 33 kHz Direct connection mode: 8 kHz, 33 kHz, A-Lo/A-Hi A-Frame: 8 kHz Clamp mode: 8 kHz and 33 kHz
Transmitting mode power output	Max. 3 watts
Output voltage	Max. 50 V rms
Output current	Max. 250 mA rms, constant current in 5 steps
Mains voltage measurement	0 V to 600 V, 50 Hz to 60 Hz Resolution: 1 V, Accuracy: ± 10%
Resistance measurement (De-energized circuit)	0 Ω to 999 kΩ Range: 0 Ω to 999 Ω (resolution: 5 Ω) Range: 1 kΩ to 999 kΩ (resolution: 1 kΩ) Accuracy: ± 10%
Output hazardous voltage warning	≥ 30 V rms
Mains hazardous voltage warning	≥ 30 V rms
Operating temperature and humidity	-4 °F to 122 °F (-20 °C to 50 °C), ≤90% RH
Storage temperature and humidity	-40 °F to 140 °F (-40 °C to 60 °C), ≤90% RH
Operating altitude	< 6561 ft (< 2000 m)
Pollution degree	2
Water and dust resistance	IP54
Drop proof	3.28 ft (1 m)
Certifications	. ® ∴ C € 💩 🕅
Safety compliance	IEC 61010-1, IEC 61010-2-033 CSA/UL 61010-1, CSA/UL 61010-2-033 IEC 61010-031, CSA/UL 61010-031 (test leads)
Size (H x W x L)	Approx. 14 x 9 x 4.7 in (355 x 230 x 120 mm)
Weight	Approx. 7.0 lb (3.2 kg) (batteries installed)

SC-600 Signal Clamp

The Signal Clamp accessory provides an efficient and safe method of applying a locate signal to a cable, enabling the Transmitter to induce a signal through the insulation into the wires or pipes. The clamp works on low impedance closed circuits only.

	SC-600 Signal Clamp
Measurement category	CAT IV 600 V
Operating voltage/current	0 to 600 V, 100 A max.
Operating frequency/tracing modes	33 kHz and 8 kHz
Signal voltage output (nominal)	23 V rms at 8 kHz, 30 V rms at 33 kHz
Operating temperature and humidity	-4 °F to 122 °F (-20 °C to 50 °C), ≤90% RH
Storage temperature and humidity	-40 °F to 140 °F (-40 °C to 60 °C), ≤90% RH
Operating altitude	< 6561 ft (< 2000 m)
Pollution degree	2
Water and dust resistance	IP54
Drop proof	3.28 ft (1 m)
Certifications	. @., CE 💩 🕼
Safety compliance	IEC 61010-1, IEC 61010-2-033 CSA/UL 61010-1, CSA/UL 61010-2-033
Size (H x W x L)	Approx. 11.6 x 7.1 x 1.4 in (295 x 180 x 37 mm)
Weight	Approx. 1.9 lb (0.85 kg)

TL-600-25M Test Lead Extension

	TL-600-25M
Description	Extension test lead, 80' (25 m)

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