

# 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



professional environment for many years to come.

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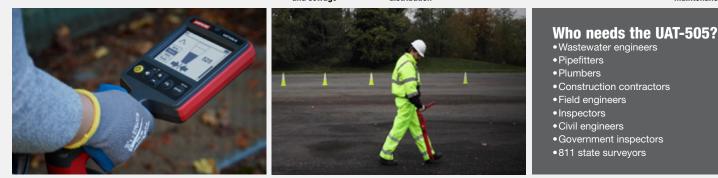
Water, wastewater and sewage

Electrical utilities distribution

Construction

Transportation

Outdoors facilities maintenance



## **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:

The UAT-500-T Transmitter <u>should never</u> 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.



#### **UAT-505 Kit Contents**

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<sup>\*</sup>TL-UAT-500 Test Leads Kit includes:

Gray test lead with permanently attached gray alligator clip

Ground stake

## Amprobe Underground Locator Kit Comparison

	UAT-505	UAT-610	UAT-620
CAT Rating	-	CAT IV 600 V	CAT IV 600 V
Transmitter frequency (direct connection)	33 kHz	8 kHz and 33 kHz	8 kHz and 33 kHz
Direct connection to energized circuits	-	•	•
De-energized circuit tracing	•	•	•
Included signal clamp	-	-	•

Green test lead with detachable green alligator clip

# AMPROBE





## **Specifications**

Operating voltage         COUNT OF SERV         De-energised clouid of yto their Connector Mode           Transmitting frequency         Active tracing: 35 Met (52,708 Hc) and 5 Met (6,102 Hc) Basive tracing count of your do-matching Mode         De-energised Method Mode           Tracing modes over out of your do-matching Mode         Method Mode         Method Mode           Dipple formation         Method Mode         Method Mode           Output transmitting modes over out of your do-matching Mode         Method Mode         Method Mode           Output transmitting modes over out of your do-matching Mode         Method Mode         Method Mode           Output transmitting Modes         Proves 2 mA         Method Mode		UAT-600-R Receiver	UAT-500-T Transmitter
Taning modesActive tracing: S0 / EQ 2::761 H2 and B ME (8,192 H2) Beases tracing: S0 / EQ 4: and B MailDe-congrises: induction Mode Direct Correction Mode Direct Correction Mode Direct Correction Mode Direct Correction Mode 	Operating voltage	0 to 600 V	De-energized circuit only for Direct Connection Mode
Tacking modes         Achive transmits (00 bet and Factor)         Induction Mode During Modes           Tassmitting mode power output		_	33 kHz
Output outpingImage: Control outpingMax: 39 kmsDotping outpingImage: Control outpingMax: 100 mA mgSensitivity adjustment (gain control outping)Image: Control outpingImage: Control outpingDepth measurementImage: Control outpingImage: Control outpingDepth measurement accuracyImage: Control outpingImage: Control outpingDepth measurement accuracyImage: Control outpingImage: Control outpingSensitivity at 1 m (typical)Power: 2 mA 18 Mike: Control outpingImage: Control outpingDepth measurement accuracyImage: Control outpingImage: Control outpingSensitivity at 1 m (typical)Power: 2 mA 18 Mike: Control outpingImage: Control outpingDepth measurement accuracyImage: Control outpingImage: Control outpingVisual signal indicationImage: Control outpingImage: Control outpingCompatible reneringImage: Control outpingImage: Control outpingCompatible reneringImage: Control outpingImage: Control outpingDepth reneringImage: Control outpingImage:	Tracing modes		Induction Mode Direct Connection Mode
Instruction	Transmitting mode power output	-	Max. 1 watt
Lacting modesIndex and MultiIndex index inde	Output voltage	-	Max. 35 V rms
Sensitivity adjustment (alin control)	Output current	-	Max. 100 mA rms
Depth measurementUp to 2016 (m)GDepth measurement accuracy10010 (m): 23% 4 (m) 0.101 (m): 23% Based: 201A 8 (kHz: 2 µA 	Locating modes	Peak and Null	-
Depth measurement accuracy         4 in (0.1 m) to 10 it (Gm): ± 3 %         -           Depth measurement accuracy         10 it (G m) to 20 it (Gm): ± 5 %         -           Sensitivity at 1 m (typical)         Power: 2 mA Redic: 20 µA 8 kH: 5 µA         -         -           Display backlight         Automatic         -         -           Audio signal indication         -         Two LEDs indicating LO and HI signal           Compatible receiver         -         -           Compatible renerver         -         -           Operating attubue <td< th=""><th>Sensitivity adjustment (gain control)</th><th>•</th><th>-</th></td<>	Sensitivity adjustment (gain control)	•	-
Deput measurement actuality         10 ft (S m) to 20 ft (S m); ± 5 %         -           Sensitivity at 1 m (typical)         If (S m) to 20 ft (S m); ± 5 %         -           Sensitivity at 1 m (typical)         If (S m); ± 5 %         -           Display backlight         Automatic         -           Audio signal indication         -         If (S m); ± 5 %           Audio signal indication         -         Continuous Signal Mode: Continuous supic to response           Compatible receiver         -         UAF600-FT reamment           Compatible receiver         -         UAF600-FT reamment           Display backlight         4.3 in (109 mm), 320 x 20 FW outdoor - C-Display with auto backlight         -           Update rate         Instantaneous         -         -           Update rate         Instantaneous         -         -           Update rate         -         -         -           Display         -4 % ft to 122 % (20 °C to 50 °C), 40% RH         -40 °C ft o10 °C ft 00 °C ft 00 °C, 80% RH           Update rate         -         -         -           Display         -         -         -           Update rate         -         -         -           Display         -4 % ft to 122 % (20 °C to 50 °C), 40% RH         -	Depth measurement	Up to 20 ft (6 m)	_
Sensitivity at 1 m (typical)Radic: 20 µA 33 Htr: 50 µA 	Depth measurement accuracy		-
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Audio signal indication         Increasing closer to the signal         Continuous Signal Mode: Compatible receiver         Continuous Signal Mode: Compatible transmitter           Compatible receiver         -         UAT-600-F Receiver           Compatible transmitter         UAT-600-T and UAT-500-T Transmitter         -           Compatible accessories         -         UAT-600-Receiver           Compatible accessories         -         -           Display         4-3 in (109 mm), 320 x 240 BW outdoor L0-Display with auto backlight         -           Update rate         Instantaneous         -           Operating temperature and humidity         -40 °F to 120 °F (40 °C to 50 °G), \$0% RH         -40 °F to 120 °F (40 °C to 50 °G), \$0% RH           Storage tomperature and humidity         -40 °F to 100 °F (40 °C to 60 °G), \$0% RH         -40 °F to 100 °F (40 °C to 50 °G), \$0% RH           Operating altitude         <6661 fl (<2000 m)         <6661 fl (<2000 m)         <6661 fl (<2000 m)           Polution degree         2         2         2         2           Proting         B25 ft (1 m)         B0         -         2           Prower supply         Six (6) 15 VA Asitikale batteries         Four (4) 15 V D cell alkaline batteries           Auto power off         Will auto turn off after 15 min on ho but prossing         Bath LO and HI LEDs blink every 1.	Display backlight	Automatic	-
Audio signal indication         Increasing closer to the signal         Continuous addio tome Publes Signal Modes: Fast pulsed sudio tome           Compatible receiver         0         Fast pulsed sudio tome           Compatible receiver         0         UAT-600-R Receiver           Compatible accessories         -         SC-600 Signal Clamp           Display         4.3 in (109 mm), 320 x 240 BW outdoor LC-Display with auto backlight         -           Update rate         -         -           Operating temperature and humidity         -4 °F to 122 °F (-20 °C to 50 °C), s 90% RH         -40 °F to 140 °F (-40 °C to 50 °C), s 90% RH           Operating temperature and humidity         -40 °F to 140 °F (-40 °C to 50 °C), s 90% RH         -40 °F to 140 °F (-40 °C to 50 °C), s 90% RH           Operating attitude         -         2         2           Prating         -         2         2           Prating         -         1P54         1P54           Prop prof         Six (6) 1.5 V AA akaline batteries         -         -           Auto power off         Will auto turn off after 15 min of no buto pressing         -         -           Battery life         Active symbol in upper right corner of the live screen         and audo sound pulses every 1.5 seconds and audo sound pulses every 1.5 seconds and audo sound pulses every 1.5 seconds and audo sound pulses every 1.	Visual signal indication	_	Two LEDs indicating LO and HI signal
Compatible transmitter-Compatible accessories-SC-600 Signal Clamp TL-UAF-SO0 Test lead setDisplay4.3 in (109 mm), 320 x 240 BW outdoor LC-Display with auto backlight-Update rate-Instantaneous-Operating temperature and humidity-4 °E to 122 °E (20 °C to 50 °C), s 90% RH-4 °E to 122 °E (20 °C to 50 °C), s 80% RHStorage temperature and humidity-4 °E to 122 °E (20 °C to 50 °C), s 90% RH-4 °E to 120 °E (40 °C to 60 °C), s 80% RHOperating temperature and humidity-40 °E to 140 °E (40 °C to 60 °C), s 90% RH-40 °E to 140 °E (40 °C to 60 °C), s 80% RHOperating ditude< 6561 ft (< 2000 m)< 6561 ft (< 2000 m)Operating ditude3.28 ft (1m)2Power supplySix (61 5.5 VA akalakine batteriesFour (4) 1.5 VD cell akaline batteriesAuto power offWill auto tum of atter 15 min ot no tutton pressingFour (4) 1.5 VD cell akaline batteriesLow battery indicationActive symbol in upper right corner of the live screenBoth LC and HLEDS blink every 1.5 secondsAgency approvalEC 6 6100-1, EC 6 1010-2-033EC 6 61326-1 Korea (KCC) Class A Equipment (Industrial Broadceasting & CS CE 6 SESafety complianceEC 6 61326-1 Korea (KCC) Class A Equipment (Industrial Broadceasting & Communication Equipment [1]I This product meets requirements for industrial Class A silectromagnetic wave equipment and the seler or user should take notice of it. This equipment is intended for use in business environments and is not to buse equipment is intended for use in business environments and is not to buse equipment is intended for use in business environm	Audio signal indication	Increasing closer to the signal	Continuous audio tone Pulse Signal Mode:
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Comparison accessions         Comparison accessions         Comparison accessions           Display         4.3 in (100 mm), 320 x 240 BW outdor LC-Display with auto backlight         -           Update rate         Instantaneous         -           Operating temperature and humidity         -4 °F to 122 °F (-20 °C to 50 °C), ≤ 80% RH         -4 °F to 122 °F (-20 °C to 50 °C), ≤ 80% RH           Storage temperature and humidity         -4 °F to 140 °F (-40 °C to 60 °C), ≤ 90% RH         -40 °F to 140 °F (-40 °C to 60 °C), ≤ 80% RH           Operating attributed         <6661 ff (< 2000 m)         <6661 ff (< 2000 m)         <6661 ff (< 2000 m)           Pollution degree         2         2         2         2           Prating         IP54         IP54         IP54         IP54           Drop proof         3.28 ft (1 m)         Power supply         Six (6) 1.5 V AA alkaline batteries         Four (4) 1.5 V D cell alkaline batteries           Auto power off         Will auto turn of affer 15 min on ho button pressing         -         -           Battery life         Approx. 35 hours at 70 °F (21 °C) (Typical)         Approx. 12 hours at 70 °F (21 °C) (Typical)           Low battery indication         Active symbol in upper right cormer of the live screen         Both LO and HI LEDS blink every 1.5 seconds and audio sound pulses every 1.5 seconds           Agency approval         EC E G 1010-	Compatible transmitter	UAT-600-T and UAT-500-T Transmitter	-
Update rate         Instantaneous         -           Operating temperature and humidity         -4 °F to 122 °F (-20 °C to 50 °C), ≤ 80% RH         -4 °F to 122 °F (-20 °C to 50 °C), ≤ 80% RH           Storage temperature and humidity         -40 °F to 140 °F (-40 °C to 60 °C), ≤ 90% RH         -40 °F to 140 °F (-40 °C to 60 °C), ≤ 80% RH           Storage temperature and humidity         -40 °F to 140 °F (-40 °C to 60 °C), ≤ 80% RH         -40 °F to 140 °F (-40 °C to 60 °C), ≤ 80% RH           Operating attitude         < 6561 ft (< 2000 m)         < 6561 ft (< 2000 m)         < 6561 ft (< 2000 m)           Pollution degree         2         2         2         2           IP-rating         IP54         IP54         IP54           Drop proof         3.28 ft (1 m)         -         -           Power supply         Six (6) 1.5 V A akaline batteries         Four (4) 1.5 V D cell akaline batteries           Auto power off         15 minutes idle         -         -           Auto power off         Approx. 35 hours at 70 °F (21 °C) (Typical)         Approx. 12 hours at 70 °F (21 °C) (Typical)           Low battery indication         Active symbol in upper right corner of the live screen         Both LO and H LEDs blink every 1.5 seconds and audio sound pulses every 1.5 seconds and aud	Compatible accessories	_	SC-600 Signal Clamp TL-UAT-500 Test lead set
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Low battery indicationActive symbol in upper right corner of the live screenand audio sound pulses every 1.5 secondsMeasurement CategoryCAT IV 600 V-Agency approvalC.C.T. IV 600 V-Safety complianceIEC 61010-1, IEC 61010-2.033IEC 61010-1, CSA/UL 61010-1, CSA/UL 61010-1, CSA/UL 61010-2.033IEC 61010-1, CSA/UL 61010-1, IEC 61010-031, CSA/UL 61010-2.033Electromagnetic CompatibilityIEC 61326-1 Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment) [1]IEC 61326-1 Korea (KCC): Class A lequipment (I1) [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 used in homes.IEC 61326 x 3.2 x 2.6 in (460 x 90 x 65 mm)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)	Battery life	Approx. 35 hours at 70 °F (21 °C) (Typical)	
Agency approval       Image: C C I I C C I I I C C I I I C C C I I C C C I C I C S A Equipment (Industrial Broadcasting & Communication Equipment) [1]       IEC C 61326-1 Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment) [1]       IEC C 61326-1 Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment) [1]       IEC C 61326-1 Korea (KCC): Class A equipment (Industrial Broadcasting & Communication Equipment) [1]       IEC C 61326-1 Korea (KCC): Class A equipment (Industrial Broadcasting & Communication Equipment) [1]       IEC C 61326-1 Korea (KCC): Class A equipment (Industrial Broadcasting & Communication Equipment) [1]       IEC C 61326-1 Korea (KCC): Class A equipment (Industrial Broadcasting & Communication Equipment) [1]       IEC C 61326-1 Korea (KCC): Class A equipment (Industrial Broadcasting & Communication Equipment) [1]       III This product meets requirements for industrial Broadcasting & Communication Equipment (Industrial Broadcasting & Communication Equipment) [1]       III This product meets requirements for industrial Broadcasting & Communication Equipment is intended for use in business environments and is not to be used in homes.         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 (	Low battery indication		
Safety compliance         IEC 61010-1, IEC 61010-2-033         IEC 61010-1, CSA/UL 61010-1, IEC 61010-31, CSA/UL 61010-1, CSA/UL 61010-1, CSA/UL 61010-2-033           Electromagnetic Compatibility         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]         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]         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]         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]         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 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 is intended for use in business environments and is not to be used in homes.           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)	Measurement Category		-
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]Electromagnetic Compatibility[1] This product meets requirements for industrial (Class A) electromagnetic 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 used in homes.IEC 61326-1 Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment (II) [1] This product meets requirements for industrial (Class A) electromagnetic 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 used in homes.IEC 61326-1 Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment (II) [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 used in homes.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	. <b>@</b> ., C € . ▲ 12	, <b>@</b> ,,, C € ∠⊗, K
Electromagnetic Compatibility       Communication Equipment) [1]       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 used in homes.       [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 used in homes.         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)	Safety compliance		
	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)	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)
	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	
Leads length	11.5 ft (3.5 m)	
Compatible transmitter	UAT-500-T Transmitter	
Operating temperature and humidity	-4 °F to 122 °F (-20 °C to 50 °C), $\leq$ 80% RH	
Storage temperature and humidity	-40 °F to 140 °F (-40 °C to 60 °C), $\leq 80\%$ RH	
Operating altitude	< 6561 ft (< 2000 m)	
Pollution degree	2	
Agency approval	.®∴ C€	
Safety compliance	IEC 61010-031, CSA/UL 61010-031	
Size (H x W x L)	Approx. 9 x 3.5 x 3.1 in (230 x 90 x 80 mm)	
Weight	Approx. 1.1 lb (0.5 kg)	
II-IIAT-500 Test Leads Kit includes: Gree	en test lead with detachable green alligator clip	

**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

# **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
- 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	.@: CE 💩 🖾
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 Rec	eiver. (6) 1.5 V AA (IEC LR6) Batteries. Carrving 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**

 $\bar{T}his$  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 modes: 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)	$\begin{array}{c} 0 \ \Omega \ to \ 999 \ k\Omega \\ \text{Range: } 0 \ \Omega \ to \ 999 \ \Omega \ (\text{resolution: } 5 \ \Omega) \\ \text{Range: } 1 \ k\Omega \ to \ 999 \ k\Omega \ (\text{resolution: } 1 \ k\Omega) \\ \text{Accuracy: } \pm 10\% \end{array}$
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	. <b>G</b> ., CE 💩 🕼
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	. <b>G</b> ., 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)

# **Mouser Electronics**

Authorized Distributor

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AMPROBE: UAT-505