TEMPO 620K-G

TEMPO 620K-G Security and Alarm Tone and Probe Kit

Instruction Manual

1. INTRODUCTION

The TEMPO 620K-G Security and Alarm Tone and Probe Kit is a professional tool designed for the security and alarm industry. This kit facilitates reliable testing and identification of wires, cables, and intermittent failures within alarm circuits. It is engineered for efficiency, allowing for convenient one-person operation.

2. PRODUCT OVERVIEW AND COMPONENTS

The 620K-G kit includes a tone generator, a tone probe, and a carrying case, providing a comprehensive solution for circuit testing and wire tracing.

Figure 1: The TEMPO 620K-G kit, showing the tone generator, tone probe, and carrying case.
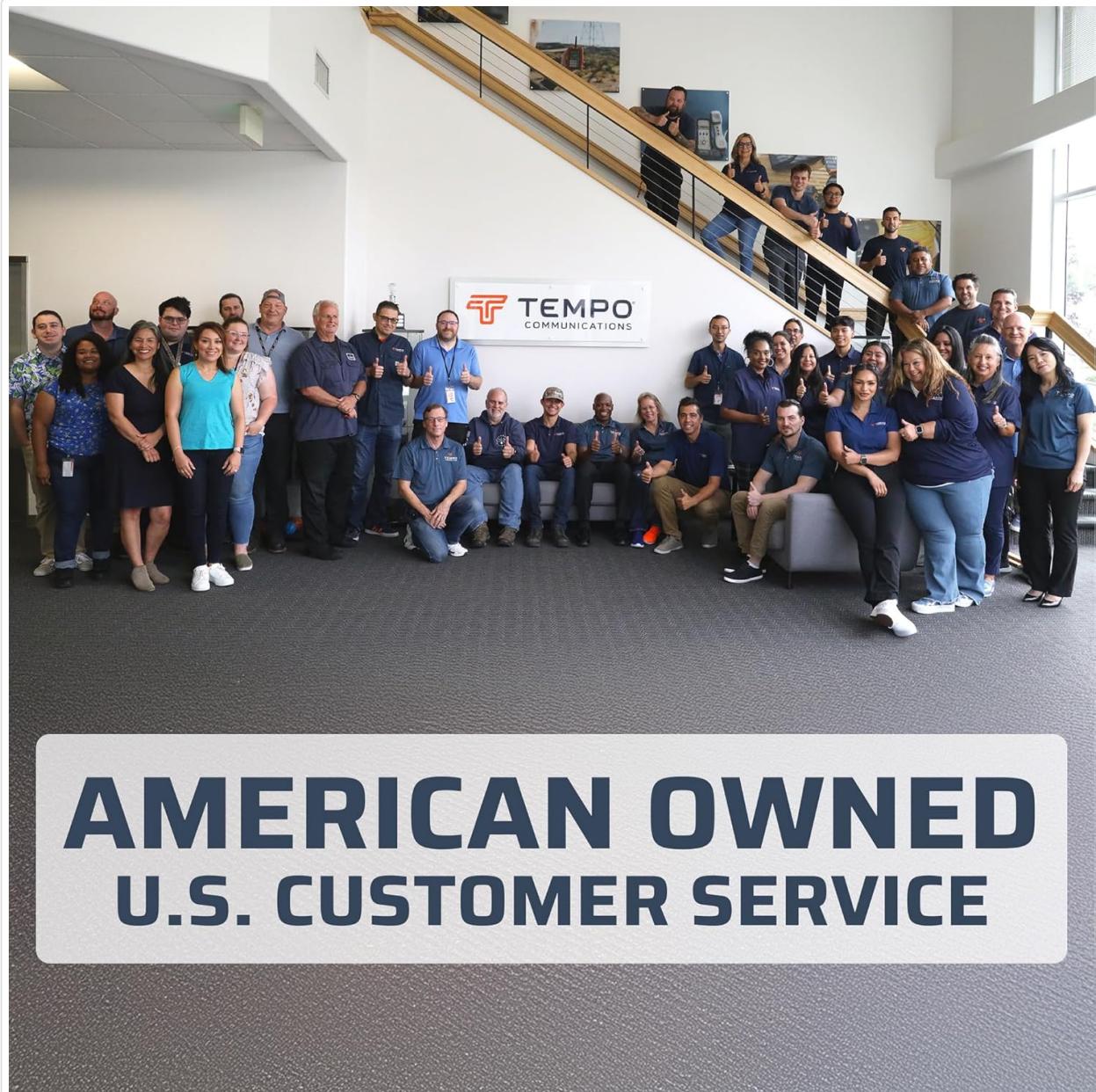
Figure 2: Detailed view of the kit components, including the tone generator, tone probe, and carrying case, with key features highlighted.

2.1. What's in the Box

- TEMPO 620 Tone Generator / Continuity Tester
- TEMPO 200EP Tone Probe
- Carrying Case
- 1 x 9V Battery (pre-installed or included separately)

3. KEY FEATURES

- **Reliable Security Testing:** Specifically designed for security and alarm applications, ensuring accurate testing and identification of issues in alarm circuits.

- **One-Person Operation:** Features a high-volume audible indicator on the probe, enabling efficient testing and troubleshooting by a single technician.

- **Intermittent Fault Finding:** A special latching feature assists in locating intermittent circuit faults, streamlining the identification and resolution of complex issues.

- **Secure and Convenient:** The tone generator includes a magnetic backing for easy attachment to metal surfaces, such as alarm panel doors, ensuring stable placement during use.
- **Connection Versatility:** Supports connections to either Normally Open (N.O.) or Normally Closed (N.C.) circuits.
- **Loop Pair Verification:** Allows for verification of loop pairs.
- **Distinct Audible Tone:** Provides a clear audible tone when an alarm condition occurs, aiding in quick diagnosis.
- **Switch Function Confirmation:** Quickly confirms the proper function of switches.

4. SETUP

4.1. Battery Installation

The TEMPO 620K-G requires one 9V battery for operation, which is included with the kit. To install or replace the battery:

1. Locate the battery compartment on the back of the tone generator.
2. Open the battery compartment cover.
3. Connect a new 9V battery to the battery clip, observing correct polarity.
4. Place the battery into the compartment and close the cover securely.

5. OPERATING INSTRUCTIONS

5.1. Tone Generation and Wire Tracing

To trace wires or cables using the tone generator and probe:

1. Connect the tone generator to the wire or cable to be traced. Use the alligator clips for bare wires or the RJ11/RJ45 connector for modular jacks.
2. Set the tone generator's slide switch to the 'TONE' position.
3. Activate the tone probe and sweep it along the suspected path of the wire. The probe will emit an audible tone that increases in volume as it approaches the toned wire.

POWERFUL TONE PROBE HELPS IDENTIFY WIRES FROM A BUNDLE

Figure 3: The tone probe in use, helping to identify specific wires within a larger bundle.

5.2. Continuity and Discontinuity Testing

The tone generator can also be used to test for continuity or discontinuity in circuits:

1. Connect the tone generator across the two points of the circuit you wish to test.
2. Set the slide switch to 'N.O.' (Normally Open) or 'N.C.' (Normally Closed) depending on the circuit type.
3. If the circuit is continuous (closed for N.O., open for N.C.), the tone generator will emit a distinct audible tone.

5.3. Locating Intermittent Faults (Latching Feature)

The latching feature is crucial for identifying intermittent faults:

1. Connect the tone generator to the circuit.
2. Set the slide switch to 'N.O. LATCH' or 'N.C. LATCH'.
3. The device will monitor the circuit. If an intermittent fault occurs (e.g., a momentary open in a normally closed circuit), the tone generator will latch onto that condition and continue to emit a tone, even if the fault clears.

4. Press the 'RESET' button to clear the latched condition.

Figure 4: The 6-position slide switch on the tone generator, used to select between OFF, TONE, N.O., N.O. LATCH, N.C., and N.C. LATCH modes.

5.4. Loop Pair Verification

The 620K-G supports loop pair verification to confirm circuit integrity:

1. Connect the tone generator to one end of the loop pair.
2. Use the appropriate setting (N.O. or N.C.) to test the continuity of the loop.
3. A distinct tone indicates a complete and functional loop.

6. MAINTENANCE

To ensure the longevity and optimal performance of your TEMPO 620K-G kit, follow these maintenance guidelines:

- **Cleaning:** Wipe the devices with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the kit in its carrying case in a cool, dry place when not in use. Remove batteries if the

device will not be used for an extended period to prevent leakage.

- **Battery Replacement:** Replace the 9V battery when the audible tone becomes weak or the device fails to power on.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No tone from probe	Tone generator not powered on or battery low. Incorrect setting on tone generator. No connection to wire.	Ensure tone generator is ON and set to 'TONE'. Replace 9V battery. Verify secure connection to the wire.
Weak or distorted tone	Low battery in tone generator or probe. Interference from other electrical sources.	Replace 9V battery in both units. Move away from strong electrical fields.
Latching feature not working	Incorrect mode selected. Fault not occurring or too brief.	Ensure 'N.O. LATCH' or 'N.C. LATCH' is selected. Verify the fault condition.
Inaccurate continuity test	Poor connection. Incorrect N.O./N.C. setting.	Ensure solid connection points. Select the correct N.O. or N.C. mode for the circuit type.

8. SPECIFICATIONS

- **Model Number:** 620K-G
- **Power Source:** 9V Battery (included)
- **Item Weight:** Approximately 16 ounces (0.45 kg)
- **Package Dimensions:** 12.24 x 5.39 x 2.72 inches (31.1 x 13.7 x 6.9 cm)
- **Manufacturer:** Tempo Communications
- **Date First Available:** August 27, 2020

9. WARRANTY AND SUPPORT

Tempo Communications products are designed for durability and reliability. For specific warranty information or technical support, please refer to the official Tempo Communications website or contact their customer service directly. Keep your purchase receipt for warranty claims.

For further assistance, please visit the Tempo Communications Store on Amazon.

Related Documents - 620K-G
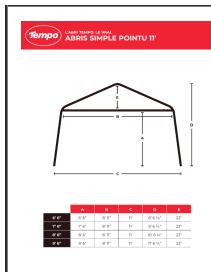
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	[Tempo Abris Rangement: Dimensions et Spécifications Techniques](#) Informations détaillées sur les dimensions des abris de rangement Tempo, incluant hauteur, largeur et longueur pour divers modèles. Idéal pour le stockage extérieur.
	[Dimensions et Spécifications de l'Abri Double Pointu Tempo 18'](#) Detailed dimensions and specifications for the Tempo 18' double gable shed, including measurements for height, width, and length.
	[Roadmaps That Matter: A Guide to Strategic Planning and Execution](#) Learn how to create actionable roadmaps that align strategy with execution. This guide covers common challenges, best practices, and tools for effective roadmapping, from balancing priorities to measuring success.
	[Tempo HP-3017 Wireless Headphones Instruction Manual](#) Get detailed instructions for your Tempo HP-3017 Wireless Headphones. This manual covers pairing, charging, specifications, safety, and troubleshooting for your Bluetooth audio experience.
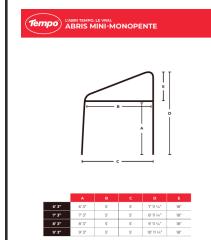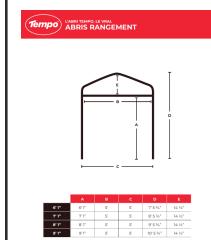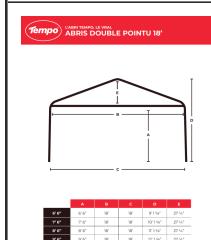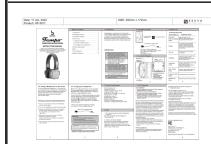
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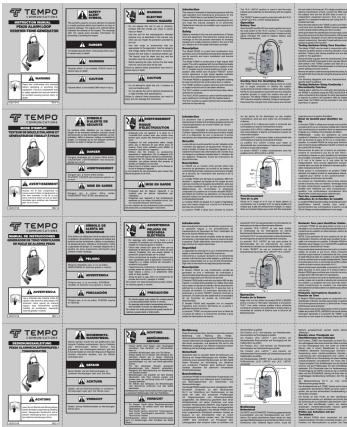
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APPLICATION NOTE TRACING NETWORK CABLES To trace Ethernet or other structured high frequency twisted pair cables takes a couple of tricks, particularly with equipment connected at the far end e.g. switch or PC . Firstly, if you connect the tracing tone to a pair then the signal will be weak t...

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