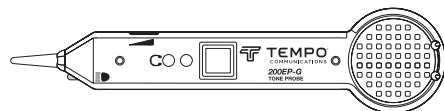



# INSTRUCTION MANUAL



## 200B-G Tone Probe with Adjustable Volume

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## 200EP-G Tone Probe with Adjustable Volume, Visual Signal Indicator, Headset Jack, Handset Connection Tabs, and Flashlight



### ⚠ WARNING

Read and understand this material before operating or servicing this equipment. Failure to understand how to safely operate this tool could result in an accident causing serious injury or death.

Register this product at [www.TempoCom.com](http://www.TempoCom.com)



### SAFETY ALERT SYMBOL

This symbol is used to call your attention to hazards or unsafe practices which could result in an injury or property damage. The signal word, defined below, indicates the severity of the hazard. The message after the signal word provides information for preventing or avoiding the hazard.

### ⚠ DANGER

Immediate hazards which, if not avoided, **WILL** result in severe injury or death.

### ⚠ WARNING

Hazards which, if not avoided, **COULD** result in severe injury or death.

### ⚠ CAUTION

Hazards or unsafe practices which, if not avoided, **MAY** result in injury or property damage.



### ⚠ WARNING

When in Loudspeaker mode, hold loudspeaker more than 30 cm (1 ft) from ear. Misuse could result in hearing damage.

All specifications are nominal and may change as design improvements occur. Tempo Communications Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

**KEEP THIS MANUAL**

### ⚠ WARNING

Electric shock hazard:

- Do not expose this unit to rain or moisture. Contact with live circuits could result in severe injury or death.
- Use this unit for the manufacturer's intended purpose only, as described in this manual. Any other use can impair the protection provided by the unit.
- Use test leads or accessories that are appropriate for the application. Refer to the category and voltage rating of the test lead or accessory.
- Inspect the test leads or accessory before use. The item(s) must be clean and dry, and the insulation must be in good condition. Failure to observe these warnings could result in severe injury or death.



### ⚠ CAUTION

Electric shock hazard:

- Do not attempt to repair this unit. It contains no user-serviceable parts.
- Do not expose the unit to extreme temperatures or high humidity. Refer to "Specifications."

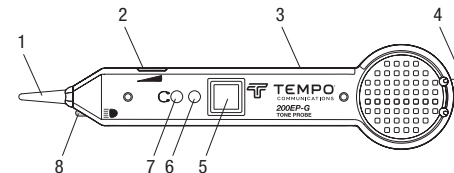
Failure to observe these precautions may result in injury and can damage the instrument.



**CAT 0 100V MAX.**

## Description

The 200B-G and 200EP-G Tone Probes, when used in conjunction with any Tempo tone generator, are designed to identify and trace wires or cables within a group without damaging the insulation.



**Figure 1. Features**

Features include:

1. Resistive plastic carbon-fiber tip to prevent accidental shorts when probing wires
  2. Adjustable volume sensitivity control
  3. Battery compartment
  4. Recessed terminal ports for handset connection\*
  5. Spring-loaded ON/OFF/flashlight\* button
  6. LED\*
  7. Headset jack (acoustically protected)\*
  8. High power flashlight\*
- \* 200EP-G only.

## Safety

Safety is essential in the use and maintenance of Tempo tools and equipment. This instruction manual and any markings on the tool provide information for avoiding hazards and unsafe practices related to the use of this tool. Observe all of the safety information provided.

## Purpose of this Manual

This instruction manual is intended to familiarize all personnel with the safe operation and maintenance procedures for the Tempo 200B-G and 200EP-G Tone Probes.

Keep this manual available to all personnel.

Replacement manuals are available upon request at no charge at [www.TempoCom.com](http://www.TempoCom.com).

## Operation

1. Connect the leads of a Tempo tone-sending test set (e.g. 77HP) as follows:
  - a. Pair Identification, to the two wires of the pair. See Figure 2a.
  - b. Single Conductor/Cable Tracing: Connect the RED lead to the subject wire and the BLACK lead to earth or ground. See Figure 2b.

*Note: Refer to the instruction manual provided with the tone generator for more details.*

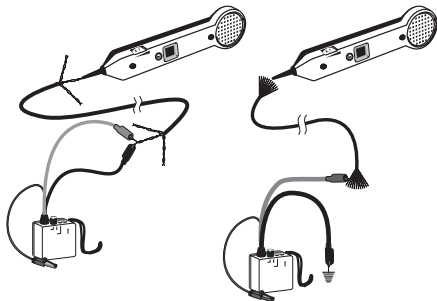


Figure 2a. Pair Tracing

Figure 2b. Cable Tracing

2. Place the test set in the TONE position.
3. To activate the probe, press and hold the ON/OFF button. This button must remain depressed to operate. Hold the tip of the probe near the tone generator and listen for the tone. This verifies that the tone generator is working and identifies the sound of the tone (steady, warbling, etc.).
4. Once activated, the volume control can be adjusted to suit the environment. Reception can be increased to overcome noise (e.g., vehicular traffic, airplanes, or engine room) or decreased to reduce interference (e.g., computer/data hum or AC buzz).
5. The 200EP-G is equipped with recessed terminal ports for connecting a lineman's handset. Attaching the handset in TALK mode automatically activates the amplifier.
6. Touch the tip of the probe to the insulation of each conductor. Reception of tone will be loudest on the subject wire and detection may be improved by separating the wires from the group. If more than one pair or single conductor is carrying the tone, decrease the volume until only the subject conductor is left with tone, ensuring that positive identification has been made.
7. When pair tracing, in order to confirm that the correct pair has been identified, separate the two wires. The signal will be as loud on each of the pair wires and will NULL halfway between the two wires.
8. On the 200EP-G, press the ON/OFF button further to its second position to turn the flashlight ON. Reduce pressure slightly to turn it back OFF.

*Note: To use the 200EP-G without pressing the ON/OFF button, connect a jumper, a telephone test set (in TALK mode), or headset to the recessed tabs near the speaker.*

## Specifications

### Electrical

Gain (nominal): 30 dB

Input Impedance (nominal): 100 M $\Omega$

Probe Tip Resistance (min):

Metal Tip: 0  $\Omega$

Plastic Tip: 300  $\Omega$

Headset: 3.5 mm stereo plug; 8 ohms minimum

Battery: One 9 VDC (NEDA 1604, JIS 006P, or IEC 6LR61)

Battery Life (nominal): 50 hours

### Physical

Length: 231 mm (9.0")

Width: 55 mm (2.2")

Depth: 28 mm (1.1")

Weight: 145 g (5.2 oz)

### Operating/Storage Conditions

Temperature: 0 °C to 50 °C (32 °F to 122 °F)

## Maintenance

### Battery Replacement

1. Turn the unit off.
2. Remove the screw and then the battery cover.
3. Replace the battery (observe polarity).
4. Replace the battery cover and the screw.  
DO NOT OVERTIGHTEN SCREW.

### Tip Replacement

1. Turn the unit off.
2. Remove the two slotted screws and CAREFULLY separate the two halves of the housing. Do not strain the exposed wire leads.
3. Replace the tip.
4. Re-assemble the housing. DO NOT OVERTIGHTEN SCREWS.

### Cleaning

Periodically wipe with a damp cloth and mild detergent; do not use abrasives or solvents.



**Do not discard this product or throw away!**

For recycling information, go to [www.TempoCom.com](http://www.TempoCom.com).

### One-Year Limited Warranty

Tempo Communications Inc. warrants to the original purchaser of these goods for use that these products will be free from defects in workmanship and material for one year, excepting normal wear and abuse.

For all Test Instrument repairs, you must first request a Return Authorization Number by contacting our Customer Service department at:

toll free in the US and Canada 800-642-2155

Telephone +1 760-510-0558.

Facsimile +1 760-598-5634.

This number must be clearly marked on the shipping label. Ship units Freight Prepaid to: Tempo Repair Center, 1390 Aspen Way, Vista, CA 92081 USA.

Mark all packages: Attention: TEST INSTRUMENT REPAIR.

For items not covered under warranty (such as dropped, abused, etc.) repair cost quote available upon request.

*Note: Prior to returning any test instrument, please check to make sure batteries are fully charged.*

### Tempo Communications

1390 Aspen Way • Vista, Ca 92081 • USA  
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