



# WINLAND ELECTRONICS, INC.

## WINLAND TEMP PROBE ACCESSORIES

**TEMP-G-B (BOTTLE OF GLYCERIN)  
TEMP-B-T (BUFFER TUBE)**

**TEMP-G-B and TEMP-B-T are sold  
separately.**

### SPECIFICATIONS

**Operating Temp** -47.2° to 77°F (-44° to 25°C)

**Accepted Probes**

**TEMP-UL-S  
TEMP-L-S, TEMP-L-W  
TEMP-H-S, TEMP-H-W**

**Tech Support 8:00am - 5:00pm  
Central Time (800) 635-4269  
[www.winland.com](http://www.winland.com)**



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D-011-0171 Rev D (4/2021)**

### TEMP-G-B (BOTTLE OF GLYCERIN)

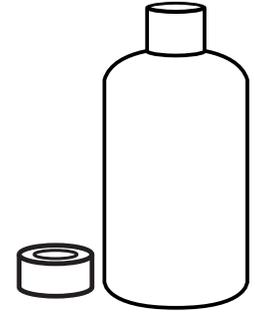
This package contains:

- 1 Bottle of Glycerin 6 fl. oz. (177 ml)
- 1 White Cap w/Bonded Septa (grommet)
- 1 Installation/Operating Instructions Guide

### SPECIFICATIONS

**Weight** 7.04 oz (0.2 kg)

**Bottle Dimensions** 4.56 x 2.13" (11.58 x 5.41 cm)



**TEMP-G-B**

### TEMP-B-T (BUFFER TUBE)

This package contains:

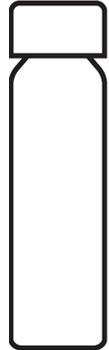
- 1 Glass Tube (40 ml)
- 1 White Cap w/Bonded Septa (grommet)
- 1 Double-Sided Tape Tab
- 1 Installation/Operating Instructions Guide

### SPECIFICATIONS

**Weight** 40 ml

**Tube Height** 4" (10.16 cm)

**Tube Diameter** 1" (2.54 cm)



**TEMP-B-T**

## INTRODUCTION

Glycerin can be used to buffer a sensor reading so that its rate of change becomes slower in contrast with the faster-reacting reading of air temperature. This will help to prevent nuisance alarms and will more closely represent the temperature of a stored product of similar mass.

## MIXING INSTRUCTIONS

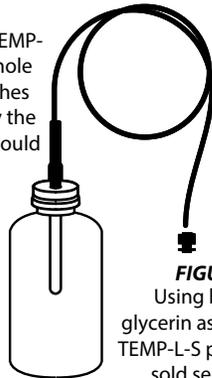
### (Required For Temperatures Below Freezing)

To monitor temperatures below freezing (32° F, 0°C) glycerin must be mixed with water; max limit of -47.2°F, -44°C. A mixture of 55% glycerin with 45% water, by volume, will accomplish this.

## INSTALLATION

### TEMP-G-B: Using Bottle of Glycerin as Buffer

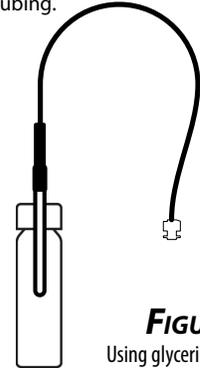
1. Mix solution (if required).
2. Replace plastic cap with the included white cap w/bonded septa (grommet).
3. Insert the probe (TEMP-UL-S, TEMP-L-S, TEMP-L-W, TEMP-H-S, TEMP-H-W) through the hole in the cap and into the bottle until it reaches the probe's black heatshrink tubing. Only the stainless steel portion/tip of the probe should be inside the bottle. (Figure 1.)
4. Place bottle with cap up securely in environment to avoid accidental tipping.
5. Allow enough time for the temperature to stabilize. This may take several hours depending on storage temperature.



**FIGURE 1**  
Using bottle of glycerin as buffer with TEMP-L-S probe. Probe sold separately.

### TEMP-B-T: Using Buffer Tube as Buffer

1. Mix solution (if required).
2. Fill tube to approximately ½" (12 mm) from the top.
3. Replace cap on tube.
4. Insert the probe (TEMP-UL-S, TEMP-L-S, TEMP-L-W, TEMP-H-S, TEMP-H-W) through the hole in the cap and into the bottle until it reaches the probe's black heatshrink tubing. Only the stainless steel portion of the probe/tip should be inside the tube. (Figure 2.)
5. Clean bottom of the tube. Remove covering from one side of tape tab and secure to bottom of tube. Apply pressure to completely adhere.
6. Clean installation location surface. Remove covering from tape on bottom of tube. Apply pressure to completely adhere. (NOTE: this tape is rated to adhere in freezer applications.)
7. Allow enough time for the temperature to stabilize. This may take several hours depending on storage temperature.



**FIGURE 2**  
Using glycerin filled tube as buffer with TEMP-L-S probe. Probe sold separately.

**To insure proper operation, test weekly.**