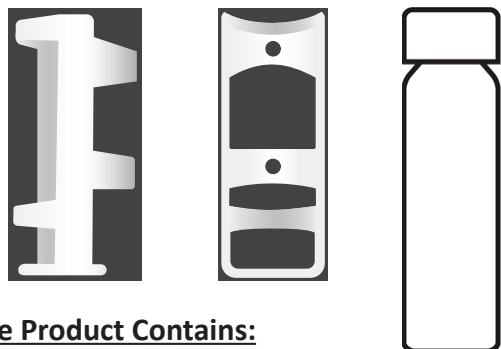


Buffer Tube Kit (TEMP-BTK) Glycerin Bottle (TEMP-G-B)



The Product Contains:

- 1 White Cap w/Bonded Septa (Grommet)
- 1 Plastic Buffer Tube Holder
- 1 40mL Glass Tube

Note:

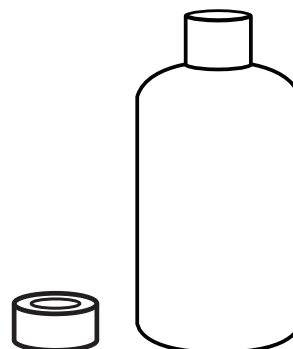
Sensors and glycerin are sold separately

Accepted Sensors:

- TEMP-L-S
- TEMP-L-W
- TEMP-UL-S
- EAPro-ULS

Specifications:

Operating Temperature	-47.2 to +77 °F (-44 to +25 °C)
Dimensions	4.0" x 1.0" (10.16cm x 2.54cm)
Weight	3.6oz (102g)



The Product Contains:

- 1 White Cap w/Bonded Septa (Grommet)
- 1 Bottle of Glycerin 6fl oz (177mL)
- 1 Product Guide

Note:

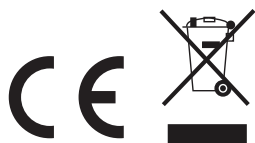
Sensors sold separately

Accepted Sensors:

- TEMP-L-S
- TEMP-L-W
- TEMP-UL-S
- EAPro-ULS

Specifications:

Operating Temperature	-47.2 to +77 °F (-44 to +25 °C)
Dimensions	4.56" x 2.13" (11.58cm x 5.41cm)
Weight	6.0fl oz (170.1g)



Tech Support 8:00am - 5:00pm Central Time
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glycerin.winland.com

D-011-0171 REV F (12/2025)

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.

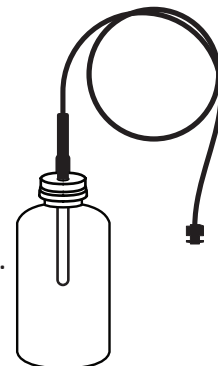
Mixing Instructions: (Required for temperature below freezing)

To monitor temperature 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 Instructions:

Figure 1:

Using bottle of glycerin as buffer with TEMP-L-S sensor. Sensor sold separately.

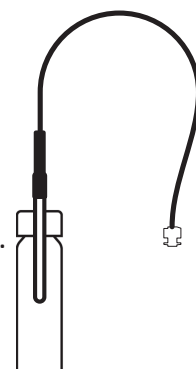


TEMP-G-B:

1. Mix solution (if required).
2. Replace plastic cap with the included white cap w/bonded septa (grommet) cap.
3. Insert the sensor (EAPro-ULS, TEMP-UL-S, TEMP-L-S, TEMP-L-W, TEMP-H-S or TEMP-H-W) through the hole in the cap and into the bottle until it reaches the sensor's white/black heat shrink tubing. Only the stainless-steel portion/tip of the sensor should be inside the bottle. (Figure 1)
4. Place the bottle with the 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 the storage temperature.

Figure 2:

Using glycerin filled tube as buffer with TEMP-L-S sensor. Sensor sold separately.



TEMP-BTK:

1. Mix solution (if required).
2. Fill tube to approximately 1/2" (12mm) from the top.
3. Apply grommet on the tube.
4. Insert the probe (EAPro-ULS, TEMP-UL-S, TEMP-L-S, TEMP-L-W, TEMP-H-S or TEMP-H-W) through the cut in the cap and push the sensor into the bottle until it reaches the sensor's white/black heat shrink tubing. Only the stainless-steel portion of the sensor/tip should be inside the tube. (Figure 2)
5. Secure the plastic buffer tube holder in the desired location and secure using screws(not included) or zip ties(not included) or alternative method deemed appropriate to keep buffer tube in position.
6. Place buffer tube inside of holder.
7. Note, if using tape, most tape is rated to adhere in freezer applications.
8. Allow enough time for the temperature to stabilize. This may take several hours depending on storage temperature.

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