

## ColdSNAP+ Dual Temperature Recorder – Overview

**Telatemp's ColdSNAP+ Dual Temperature Recorder will permanently record a critical descending temperature (-20°C to 15°C) PLUS an ascending temperature (+38°C to 60°C).**

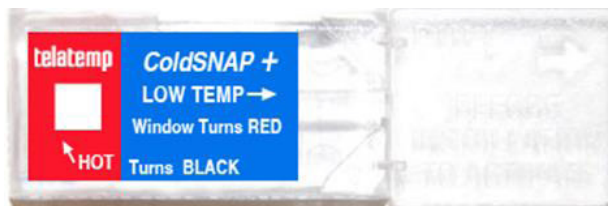
The Telatemp ColdSNAP+ Dual Temperature Recorder will monitor your perishable products in transit or storage by recording exposure to both a critical cooling and warming temperature. The rugged all-mechanical plastic-housed recorder has a self-adhesive backing, long storage life, and unique patented Telatemp design eliminating delicate chemical sensors, fragile glass or the need for batteries.

The ColdSNAP+ Dual Temperature Recorder combines the proven  $\pm 2^{\circ}\text{C}$  accuracy of ColdSNAP to record a descending standard temperature between  $-20^{\circ}\text{C}$  to  $+15^{\circ}\text{C}$  PLUS irreversible temperature label technology to record high temperature extremes between  $+38^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ . The bimetallic sensing element snaps at its rated cold temperature, permanently turning the indicating window from clear to bright red, while the ascending temperature window turns irreversibly black at its rated temperature.

To use, allow the sensor to stabilize at the product temperature at least  $10^{\circ}\text{C}$  above the ColdSNAP rated temperature not to exceed  $30^{\circ}\text{C}$ .

### Description

- 1.38" x .69" x .22" ( 35 x 18 x 6mm)
- Length with activation tab: 2.13"
- Weight: 0.15 oz
- All-mechanical , plastic-housing
- ColdSNAP descending temperature window
- Mylar plus label ascending temperature indicator window



### Components

- Injection molded plastic housing with activation tab
- Calibrated bimetal thermostatic snap disc
- Stainless steel spring
- Plus ascending temperature indicator
- Double-sided self-adhesive backing on release liner

### Packaging

- Heat-sealed polyvinyl 20 /pack
- Lot numbered
- Includes instruction card

### Product Performance

- Records cooling below the rated temperatures  $\pm 2^{\circ}\text{C}$
- The red painted bimetal sensor changes shape and becomes visible in the indicator window
- Store at least  $10^{\circ}\text{C}$  above the activation temperature, not to exceed  $30^{\circ}\text{C}$
- Precondition the ColdSNAP at least  $10^{\circ}\text{C}$  above the activation temperature before tab is pulled
- The plus label records exposure to ascending temperatures by turning irreversibly jet-black at the rated temperature  $\pm 2^{\circ}\text{C}$  or 3%

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**SHELF LIFE:** 2 years from date of shipment when stored at the preconditioning temperature and 6 months when stored within 10°C of the response temperature.

**SHIPMENT:** ColdSNAP+ models with ascending response temperatures of 130°F (54°C) or lower must ship via 2nd Day Air or faster and may seasonally incur an additional charge for insulated packaging.

**WARRANTY:** The following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchantability and fitness of purpose: Seller's and manufacturers only obligation shall be to replace such quantity of the product proved by Telatemp Corporation to be defective.

**LIMITATION OF LIABILITY:** All physical properties, statements, and recommendations are either based on tests we believe to be reliable or our experience, but they are not guaranteed. Telatemp Corporation recommends each user determine the suitability of the products for the intended application. Telatemp Corporation shall not be liable for direct, indirect, special, incidental or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability or any other legal theory.

### Coldsnap+ Dual Temperature Recorder Specifications

<b>Descending Accuracy</b>	±2°C of rated value.
<b>Ascending Accuracy</b>	±2°C or 3%.
<b>Shipping</b>	Special insulated packaging required to ship ascending recorders rated 130°/54°C or lower.
<b>Shelf Life</b>	24 months when stored at least 10°C above the activation temperature, not to exceed 30°C.
<b>Materials</b>	Polystyrene case with metal thermostatic sensing element, polyester substrate with thermal compound.
<b>Adhesive</b>	Double-sided self-adhesive backing on release liner.
<b>Packaging</b>	Heat-sealed polyvinyl sleeves of 20 pieces, lot numbered with instruction card.
<b>Dimensions</b>	1.38 x 0.69 x 0.22 in. (35 x 18 x 6mm).
<b>Length with activation tab</b>	2.13 in.
<b>Activation</b>	Pull tab straight out laterally, do not bend or break off.
<b>Weight</b>	0.15 oz.

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### Available Temperature Configurations

Critical Descending Temperature	Heat Sensor 38°C	Heat Sensor 41°C	Heat Sensor 43°C	Heat Sensor 46°C	Heat Sensor 49°C	Heat Sensor 54°C	Heat Sensor 60°C
-20°C	CT-20C-D +38C	CT-20C-D +41C	CT-20C-D +43C	CT-20C-D +46C	CT-20C-D +49C	CT-20C-D +54C	CT-20C-D +60C
-10°C	CT-10C-D +38C	CT-10C-D +41C	CT-10C-D +43C	CT-10C-D +46C	CT-10C-D +49C	CT-10C-D +54C	CT-10C-D +60C
-5°C	CT-5C-D +38C	CT-5C-D +41C	CT-5C-D +43C	CT-5C-D +46C	CT-5C-D +49C	CT-5C-D +54C	CT-5C-D +60C
0°C	CT0C-D +38C	CT0C-D +41C	CT0C-D +43C	CT0C-D +46C	CT0C-D +49C	CT0C-D +54C	CT0C-D +60C
+2°C	CT2C-D +38C	CT2C-D +41C	CT2C-D +43C	CT2C-D +46C	CT2C-D +49C	CT2C-D +54C	CT2C-D +60C
+5°C	CT5C-D +38C	CT5C-D +41C	CT5C-D +43C	CT5C-D +46C	CT5C-D +49C	CT5C-D +54C	CT5C-D +60C
+10°C	CT10C-D +38C	CT10C-D +41C	CT10C-D +43C	CT10C-D +46C	CT10C-D +49C	CT10C-D +54C	CT10C-D +60C
+15°C	CT15C-D +38C	CT15C-D +41C	CT15C-D +43C	CT15C-D +46C	CT15C-D +49C	CT15C-D +54C	CT15C-D +60C