Blood Temp 10 10°C/50°F
Blood Bag Temperature Monitor

The Blood Temp 10 blood bag indicator is designed for use by blood banks and transfusion services during blood storage and transportation.

When applied to a blood bag the Timestrip® Blood Monitor will immediately begin to sense the core temperature. Any breach of the core blood temperature above 10°C and the Timestrip Blood Monitor will change color from white to blue indicating that an unsafe temperature condition existed.

If the indicator window remains white, the blood may safely be reissued upon return as detailed by the American Association of Blood Bank Standards for Blood Banks and Transfusion Services and CFR 600.15(a).

Strengthen your blood handling programs

4 Protect against blood waste
With the push of a button the Timestrip® Blood Temp 10 makes it possible to reissue blood which would otherwise be discarded.

4 Drive accountability
When handlers know that blood temperature is being measured performance is improved rapidly.

4 Increase patient safety
Timestrip® Blood Temp 10 ensures bacteria growth due to elevated temperatures has not compromised blood during storage, transportation and distribution.

4 Ensure compliance
The Timestrip® Blood Temp 10 provides auditable proof that your blood has been stored, transported and reissued properly and according to relevant regulatory standards.

Features | Benefits
--- | ---
Patented field activation | Low cost shipping and storage requirements
Indication of arming | On window after blister push
Unit level serialization | Allows for individual product tracking and lot tractability
Highly accurate | Proven in both lab testing and real world applications
Splash proof | High moisture does not affect product stability, accuracy or structure
Customization | Temperature & design flexibility

Specifications

- **Threshold temperature**: 10°C/50°F
- **Temperature accuracy**: ± 1°C / 2°F
- **Storage conditions**: Store in cool, dark location. Storage temperature of 22°C / 72°F at 20-80% RH
- **Shelf Life**: 2.5 years from date of manufacture
- **Size**: 19mm X 30mm X 0.5mm
- **Blister height**: 2.5mm

Timestrip® Blood Temp 10 leads to more predictable blood handling by eliminating the environment of guesswork, assumptions, and inaccurate predictions, giving you the confidence needed to make important decisions.

To order contact GenesisBPS
866-712-5663 · www.GenesisBPS.com
**Blood Temp 10**  
10°C/50°F  
Estimated Return on Investment (ROI)

<table>
<thead>
<tr>
<th>Est. Total Blood Bags (per year)</th>
<th>X</th>
<th>Est. Loss Rate</th>
<th>=</th>
<th>Loss Unit per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>20,000</td>
<td></td>
<td>5%</td>
<td></td>
<td>1,000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Loss Units</th>
<th>X</th>
<th>Avg. Replacement Costs per Unit</th>
<th>=</th>
<th>Current Yearly Costs for Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000</td>
<td></td>
<td>$220</td>
<td></td>
<td>$220,000</td>
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</table>

<table>
<thead>
<tr>
<th>Est. Total Blood Bags (per year)</th>
<th>X</th>
<th>Timestrip Unit Cost</th>
<th>=</th>
<th>Total Timestrip Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>20,000</td>
<td></td>
<td>$0.99</td>
<td></td>
<td>$19,800</td>
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</table>

<table>
<thead>
<tr>
<th>Current Yearly Costs for Replacement</th>
<th>X</th>
<th>Conservative Loss Reduction Rate Using a Timestrip</th>
<th>=</th>
<th>18% Decrease in Loss Equates to Savings of</th>
</tr>
</thead>
<tbody>
<tr>
<td>$220,000</td>
<td></td>
<td>18%</td>
<td></td>
<td>$39,600</td>
</tr>
</tbody>
</table>

**4** Reducing your loss rate by 9% pays for total investment.

**4** A conservative 18% reduction doubles your return.

**4** Not captured in current costs to customer (that may be reduced with monitoring program):  
- Administration fees  
- Freight (if product cannot be salvaged in the field)  
- Unhappy customers (customer service manpower)  
- Recall / Audits / Regulatory Fines  
- Potential Litigation

Calculate your estimated ROI by using our online savings calculator tool.  
Use this QR code or visit: http://www.timestrip.com/blood_cold_chain.php

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Blood Life Cycle with Blood Temp 10

- DONATION
- INTO STORAGE
- STORAGE
- INTO USE
- TEMP OK
- IN USE
- BREACHED
- DISCARDED

- activated- no breach
- activated- no breach
- activated- breach

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Blood Temp 10  10°C/50°F
Instructions

Blood Bag Requirements
Proper temperature control of the blood bag is required prior to Timestrip® Blood Temp 10 application:

- Blood bag must be pre-chilled in a refrigerator (2°C/36°F – 6°C/43°F) to relevant blood bank regulation temperatures (maximum 8°C)
- Select a location on the lower 1/3 of the blood bag where the greatest amount of blood is held
- Wipe area to ensure that it is clean, oil free and moisture free

Prior to Activation
To show that the Timestrip® Blood Temp 10 is inert and not yet monitoring temperature:

- The indication of arming window will be yellow with a green border
- The breach window will be white with a red border

To Activate
In order to switch the product to its activated status and begin monitoring temperature:

- Indicators must in an environmental temperature above 10°C/50°F (no pre-conditioning is required)
- Firmly squeeze the blister located on top of the indicator showing the power symbol

Proof of Successful Activation
To confirm that the Timestrip® Blood Temp 10 has been activated appropriately:

- The indication of arming window will change from yellow to green
- If the indication of arming window does not immediately change green resqueeze the blister firmly and confirm the change from yellow to green

Applying Timestrip Temp 10
Immediately after following the proof of successful activation:

- Remove Timestrip Blood Temp 10 from the adhesive liner strip
- Adhere the indicator to the prepared location on the blood bag (lower 1/3rd of the blood bag where the greatest amount of blood is held)

Completion
To complete the process:

- Immediately after activation and adhesion your blood bag is ready for standard use

Congratulations! You are now monitoring the temperature of your blood bag.
Blood Temp 10  10°C/50°F
Interpretation Guide

The following overview is a simple interpretation key designed for speed and simplicity.

1 **Inert**
   When the Timestrip® Blood Temp 10 is in a state of inactivity:
   - Indication of arming window will remain yellow with a green border
   - Breach window will remain white with a red border

2 **Activated**
   When the Timestrip® Blood Temp 10 has been activated:
   - Indication of arming window will be green
   - Breach window will remain white with a red border

3 **Breached**
   Whenever the core temperature of the blood bag breaches 10°C/50°F an immediate indication of temperature abuse is recorded:
   - Indication of arming window will be green
   - Breach window will turn blue with a red border

The breach window is irreversible and cannot be reset or changed.