

06933 Timestrip® Blood Temp 10



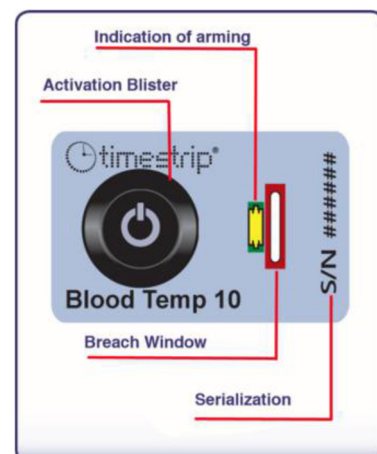
General

The Timestrip® Blood Temp 10 blood bag indicator (BT10) is designed for use by blood banks and transfusion services during blood storage and transportation.

When applied to a blood bag BT10 will immediately begin to sense the blood temperature. Any breach of the blood temperature above +10°C will be indicated on the breach window by the appearance of blue color in the window. Any blue coloration in the "breach-window" (from partial to full color change) is defined as a breach event.

How to use

BT10 is completely inert prior to activation and can be stored at room temperature. No pre-conditioning is required.



Proper temperature control of the blood bag is required prior to application of BT10

1. Blood bag must be pre-chilled in a refrigerator (2°C/36°F – 6°C/43°F) to relevant blood bank regulation temperatures.
2. The indicator should be applied on the lower 1/3rd of the blood bag where the greatest amount of blood is held.
3. Area should be wiped to ensure it is clean, oil- and moisture free.

BT10 application

1. Make sure the BT10 is inert and not yet monitoring temperature:
 - The indication of arming window must be yellow
 - The breach window must be white
2. The indicator must be at an environmental temperature above 10°C/50°F.
3. Firmly squeeze the button located on top of the indicator showing the symbol
4. Verify that the arming window has changed color from yellow to green.
In the event, that the indication of arming window does not immediately change to green re-squeeze the button firmly and confirm the change from yellow to green.
5. Remove the BT10 indicator from its adhesive liner strip.
6. Adhere the indicator to the prepared location on the blood bag and apply constant pressure for 3-5 seconds to ensure successful adhesion quality.

I) Performance Specifications

Threshold temperature:	10°C/50°F
Temperature accuracy:	± 1°C/2°F
Display:	Irreversible

II) Product Specification

Button Position:	Button on Top (BOT)
Color of Breaching window during a breach event:	Blue
Adhesive:	DuploCOLL® 2353 – for reverse coating of labels employed for labelling blood bags – see Appendix 1
Product drawing:	See Fig. 1
Graphics:	See Fig. 2
Other:	Not suitable for immersion in water.



III) Product Construction

The indicator is constructed of a polymeric assembly multilayer and aluminum-plastic laminate. It encapsulates colored liquid chemicals. Maximum weight of colorant is <0.5 mg. Liquid chemicals are listed in the Food Chemicals Codex and/or approved by the Food and Drug Administration (FDA) under Title 21, and/or considered generally recognized as safe (GRAS). All materials are non-toxic, latex and PVC-free.

IV) Storage Conditions (un-activated)

- Store in cool dark environment
- Recommended: 22°C/72°F at 20-80% RH
- Please note that before activation, the product can tolerate short term exposure during transit (hours or a few days) to temperatures in the range -30°C to +55°C. However, long term storage should be under recommended conditions.

VI) Shelf-life

- 2 years from date of shipping

Figure 1: Product Drawing

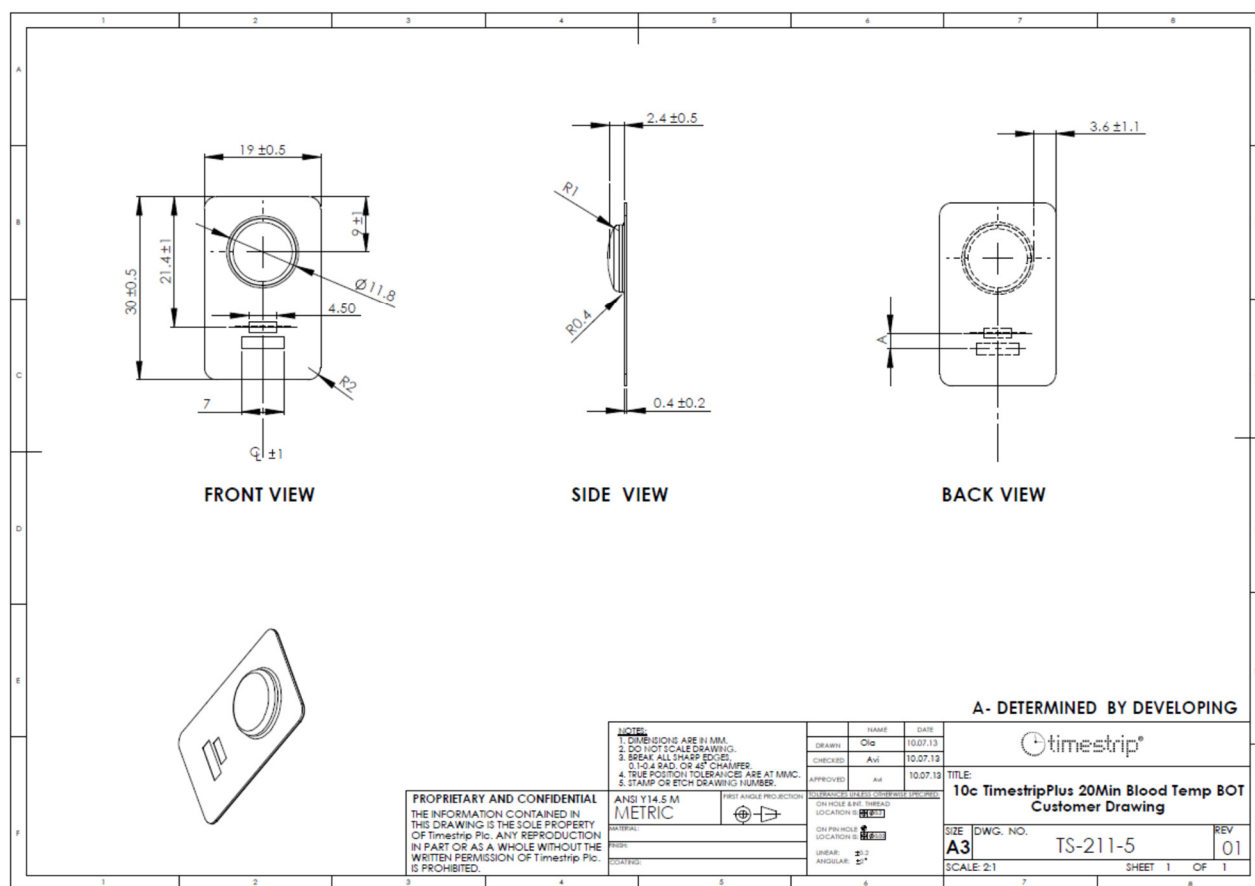
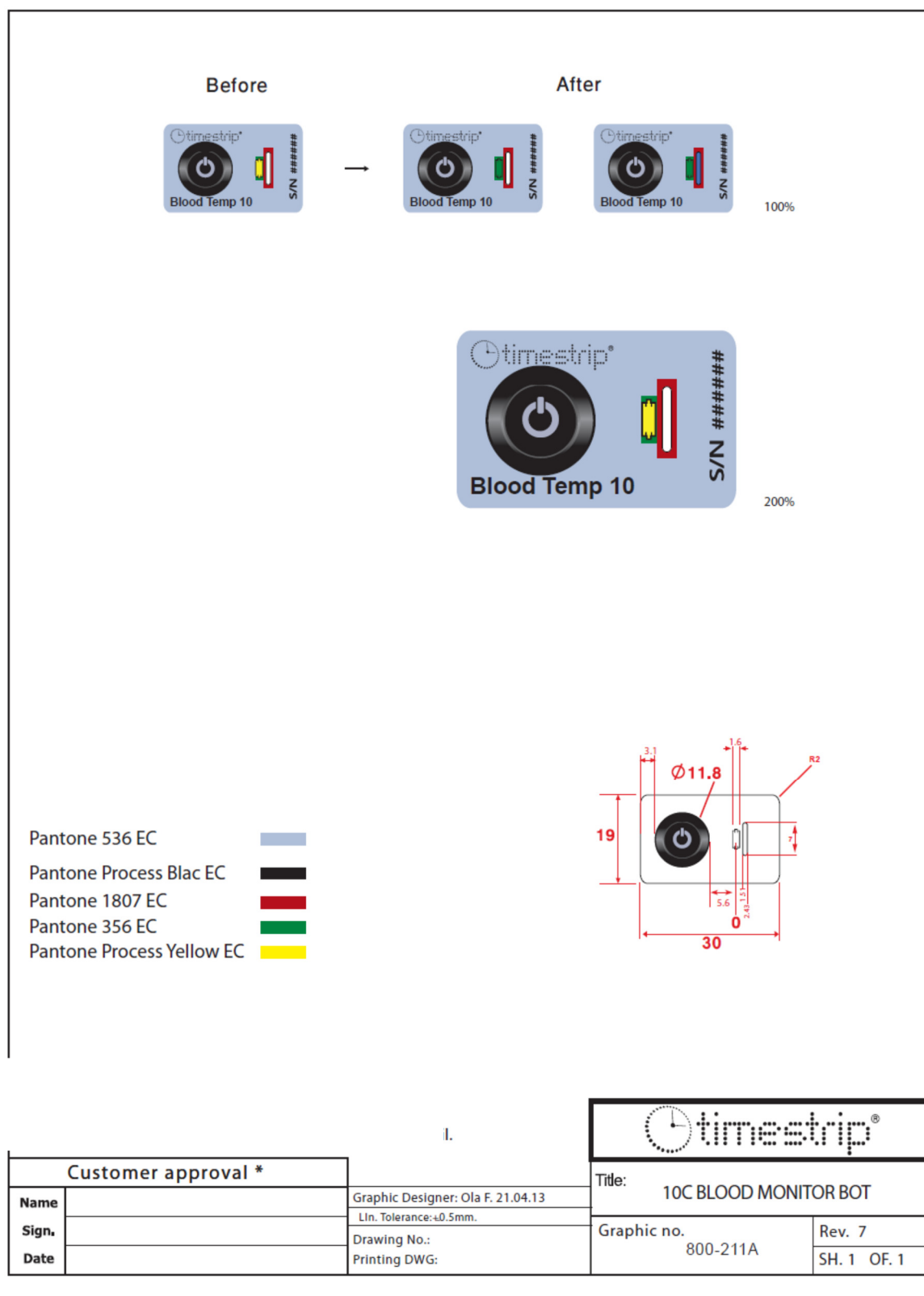


Figure 2: Graphics

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Appendix 1

DuploCOLL® 2353

Art. No. 11 02 20

Double-sided adhesive tape with special paper carrier

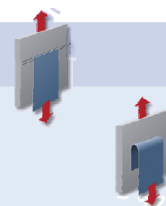
Specific technical data*

Temperature range	-40 °C to +100 °C
Rising heat test in a steel-PET-bond, beginning at 20 °C, increasing temperature every 30 minutes by 10 °C; no loss of adhesion up to	106 °C

* Specific test results, statistically not approved.

Technical Data

Shear strength	on steel according to DIN EN 1943, edition 1996, at +23 °C +/- 2°C	25 N/625 mm²
Peel strength	on steel according to DIN EN 1939, edition 1996, at +23 °C +/- 2°C	17 N/25 mm



Product features

Applicability on

Initial adhesion	● ● ●	Foam	● ● ○
Final adhesion	● ● ○	Rubber	● ● ○
Dimensional stability	● ○ ○	Fabric	● ● ●
Adhesion on even surfaces	● ● ●	Glass/Ceramics	● ● ○
Adhesion on rough surfaces	● ● ○	Wood	● ● ●
Ageing resistance	● ● ●	High energy plastics: PVC, PC, ABS,...	● ● ●
Weathering resistance	● ● ●	Low energy plastics: PE, PP,...	● ● ○
Chemical resistance	● ● ●	Metal	● ● ●
Resistance to plasticizers	● ● ○	Paper/Cardboard	● ● ●

● ● ● very suitable ● ● ○ suitable ● ○ ○ suitable with reductions ○ ○ ○ not suitable

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