

Temperature monitoring in blood banks with **testo Saveris**.



Storing a valuable product safely:

Products obtained from blood such as blood plasma, red and white blood corpuscles and blood platelets are essential basic materials in human medicine. For example, blood coagulants (e.g. for haemophiliacs), human albumin and immunoglobulins are produced on this basis. The latter are used, among other things, for major operations, to treat antibody deficiency and auto-immune diseases, and for serious infections and septicaemia. Blood plasma also has a direct application in cases of blood loss and in operations.

In the storage of blood products, the strict adherence to the correct temperature conditions is crucial – because only this guarantees that all essential components are preserved. The testo Saveris is ideally suited to this task: It reliably and precisely monitors the temperatures in blood banks and additionally offers a high level of security, thanks to automatic alarms when limit values are exceeded.



The challenge:

Blood plasma is generally stored at -30 °C (for max. 12 months) or -42 °C (for max. 24 months). The optimum storage temperature for red blood cells is +4 °C. Various possible solutions are available to the responsible people for the monitoring of these temperature ranges. The minimum requirement is the min./max. temperature in the refrigerator. As an alternative, data loggers and thermographs are available, which automatically record and document the measurement values. However, both possibilities have a decisive disadvantage: They cannot inform the responsible person immediately when a temperature limit value in the refrigerated unit is violated, or if there is an interruption in the power supply – and therefore in the cold chain.

In addition to fast and reliable alarms, the monitoring solution should also offer a high level of reliability in data archiving, as well as being easy to operate and flexibly extendable. And all this, of course, while strictly adhering to the relevant regulations and standards.

The solution:

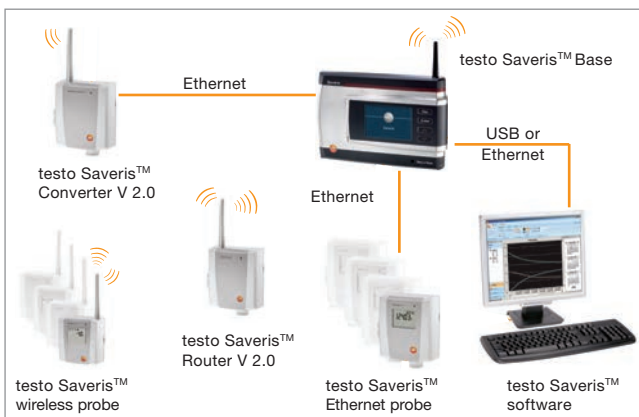
The testo Saveris measures the temperature values in the storage of blood products highly accurately, and provides uninterrupted documentation. Comprehensive alarm management and automated reporting allow adaptation to the most diverse customer requirements.

The transfer of the measurement data takes place via wireless and/or Ethernet probes to a base station. This automatically monitors and documents all measurement data. If limit values are exceeded, various different alarm options, such as SMS/e-mail alarm or alarm relay is available. Remote alarms can even be given when the system is not connected to a running PC.

Data recording with testo Saveris continues to function without interruption even in cases of power cuts.

All recorded data are centrally stored and archived in the validatable 21 CFR Part 11 Saveris software. This allows comprehensive analysis and detailed evaluation of all recorded measurement data.

High security, reliable monitoring and considerable cost savings: testo Saveris is the optimum solution for temperature monitoring in blood banks.



The measurement data monitoring system testo Saveris with its components

More information.

More information and answers to all your questions concerning measurement data monitoring with testo Saveris at www.testolimited.com