Automated monitoring of temperature and humidity in the storage of pharmaceuticals in pharmacies and hospitals with testo Saveris 2.

In pharmacies and hospitals, the health of the patients is of primary importance. Here in particular, it is all the more important to consistently avoid risks that arise due to the improper storage of drugs or units of blood. Temperature- and humidity-sensitive drugs must be stored under controlled climatic conditions and their compliance continuously monitored and documented. Those in charge need to spend a great deal of time on this, because errors can have costly consequences: just one pharmacy refrigerator often stores drugs with a value of 20,000 euros – not to mention the value of a good reputation.

With the testo Saveris 2 cloud-based measurement data monitoring system, Testo has taken a new approach to monitoring temperature and humidity and significantly simplified the automated collection, storage and analysis of measurement data. The WiFi data loggers installed at all relevant refrigeration points can be read out via WLAN, so the data is accessible anywhere and at any time via the Saveris Cloud. Alerts are sent out automatically if limit values are violated. You can therefore monitor all the relevant ambient conditions in the refrigerators, dispensary, laboratory and prescription preparation areas – really easily, at any time and anywhere.

The challenge.

Almost all pharmaceutical products are sensitive to temperature and humidity, lots even have to be stored in a cold chain, so they typically need to be stored at temperatures between 2 °C and 8 °C. At the same time, when it comes to lots of modern drugs, greater temperature and humidity fluctuations are problematic and therefore need to be avoided. For example, freezing only once can considerably impair the efficacy of drugs containing proteins – these are then no longer usable and represent a corresponding loss for the pharmacist. Since it has been proven that even less sensitive products cannot tolerate large fluctuations, the "Controlled Room Temperature" (CRT) of +25 °C for storing drugs has also played an increasingly important role.

In hospitals, units of blood and laboratory samples, as well as drugs, need to be monitored continuously, and add to that monitoring the climate of waiting and recovery rooms, operating theatres, intensive care units, cleanrooms and kitchen areas. Anywhere, and at any time, compliance with the permissible temperature and humidity values in each case must be guaranteed and documented – a considerable extra effort for the already greatly stretched hospital staff.

The solution.

Progressive digitization and automation opens up completely new possibilities for monitoring climate in the pharmaceutical sector. The testo Saveris 2 cloud-based measurement data monitoring system automates the entire measurement procedure: with the testo Saveris 2 WiFi data loggers, temperature and humidity values in sales and storage areas and also in refrigerators are recorded in a fully automated process and transmitted to the Testo Cloud via

WLAN, where they are safely and permanently stored. From there, they can be retrieved from anywhere and at any time via a standard web browser – on an office PC or a smartphone while out and about. Special software, as is the case with conventional monitoring systems, is not required here – there's no need to install or constantly update anything. Thanks to the many different visualization options offered by testo Saveris 2, even the previously time-consuming documentation of results is really easy. This saves valuable time and money, and at the same time ensures that all legal regulations and standards are complied with. Even if limit values are violated, safety is always guaranteed: testo Saveris 2 alerts those in charge via SMS or e-mail, so they can respond immediately in case of emergency.

The advantages at a glance.

- Automated, reliable temperature monitoring
- Measurement data accessible from anywhere and at any time, even using a smartphone or tablet while on the move
- Save time and money with automated read-out of data loggers
- Scalable with other data loggers as required
- Automatic alerts in the event of limit value violations or malfunctions
- Very high security, because the data is stored in duplicate – in the cloud and in the data logger

More information.

For more information on testo Saveris 2 WiFi data loggers and the Saveris Cloud and their possible applications in pharmacies and hospitals, go to www.testo.com.

WiFi data logger

14.7

3.6

48.3
59.5

Your local WLAN router

Testo Cloud

smartphone

Tablet

PC