



Validatable 21 CFR Part 11 software for testo Saveris.

Maximum data security thanks to CFR-compliant data storage.



testo Saveris system overview

The testo Saveris data monitoring system enables users to save time and money with automated measurement data management. Other benefits include centralised documentation and a range of different alarm options. The system guarantees the reliable detection, storage and archival of measurement data in production processes, when storing and transporting pharmaceutical products and in clean room air conditioning.

1 testo Saveris base

Efficient measurement data monitoring due to:

- Connection of up to 150 Saveris probes
- Flexible system design of wireless probes and Ethernet probes in one system
- Easy to use thanks to:
- Display for showing alarms and system data
- · Quick overview of system components, measurement data and alarms

Secure data due to:

- LED/audible/relay/optional SMS alarms
- · Storage and alarm even if PC is not running
- Built-in emergency rechargeable battery guarantees safety of data if there is loss of power
- · Long-term memory ensures data security and independence from PC





3 testo Saveris radio probe

Efficient measurement data monitoring due to:

- · Precise measurement of temperature and humidity values
- Numerous probe types, tailored to every application
- Integration of transmitters for all measurement parameters with standardised current/voltage interfaces, e.g. 4 to 20 mA
- Extension of transmission path by testo Saveris router
- Easy to use thanks to:
- · Simple commissioning and assembly

Secure data due to:

- Secure wireless data transmission thanks to bi-directional and Testo's own wireless protocol (proprietary)
- No loss of measurement data if connection is interrupted, thanks to data memory in the probe



2 testo Saveris CFR software

Efficient measurement data monitoring due to:

- Centralised documentation of all measurement data
- Network-enabled software: server software, any number of client/viewer work stations within a network

Easy to use thanks to:

- · Graph/table/alarm overview
- Easy calendar management

Secure data due to:

- Validatable software
- Alarm via e-mail and/or SMS



4 testo Saveris Ethernet probe Efficient measurement data monitoring due to:

- · Precise measurement of temperature and humidity values
- Numerous probe types, tailored to every application
- Integration of transmitters for all measurement parameters with standardised current/voltage interfaces, e.g. 4 to 20 mA

Easy to use thanks to:

· Integration in existing Ethernet system

Secure data due to:

- Testo's own Ethernet protocol (proprietary), based on HTTP protocol
- Built-in emergency rechargeable battery guarantees safety of data if there is loss of power

Additional benefit:

Wireless probes can be integrated into Ethernet systems using the

testo Saveris extender/converter.



Validatable testo Saveris software

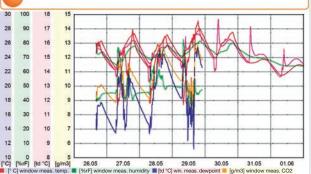
Maximum data security

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	PDF Bericht erstellen Tour aus vorhandener Datenaufzeichnung rückwirkend erstelle
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- · Complete integration of access concept in tried-and-tested Windows security system (e.g. user and password management)
- Authorisation concept: allocation of rights by administrator for three user levels
- Testo's own protocol (proprietary) with wireless and Ethernet communication
- CFR-compliant data storage with checksum-verified database
- Use of checksums to guarantee correct and secure data transmission
- Automatic daily backup and manual backup of database files possible



Tamper-proof PDF reports



- Automatic PDF reports (daily/weekly/monthly)
- Manual creation of PDF reports for user-defined time, secured with master password

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• 21 CFR Part 11 compliant printouts

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• Identification code for clear allocation of PDF reports

Traceability of user activities × Audit Trail In... Datum/Zek 1 27.09.2012 10.08.23 2 27.09.2012 10.08.27 3 27.09.2012 10.08.27 4 27.09.2012 10.08.27 5 27.09.2012 10.08.27 6 27.09.2012 10.08.27 7 27.09.2012 10.08.27 8 27.09.2012 10.08.27 9 27.09.2012 10.08.27 9 27.09.2012 10.08.27 Benutzer Aktion Gerät 2303351 Details Bezu 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 27.09.2012 10:13:00 1.0 min mobile 27.09.2012 10:13:00 1.0 min 27:09.2012 10.08.27 27:09.2012 10.08.27 27:09.2012 10.08.27 27:09.2012 10.08.27 27:09.2012 10.08.27 27:09.2012 10.08.27 27:09.2012 10.08.27 27:09.2012 10.08.27 27:09.2012 10.08.27 27:09.2012 10.08.27 27:09.2012 10.08.27 27:09.2012 10.08.27 27:09.2012 10.08.27 27:09.2012 10.08.27 27.09.2012 10:13:00 1.0 min 1997630 1997630 1997630 27.09.2012 10:13:00 1.0 min 997630 1994 °C 20_1 19948201 Schließen Drucken Exp -

- · Audit trail for traceability of user activities in the system
- Audit trail documents time, user name, activity carried out, Saveris components and details about the activity carried out

Electronic signatures

Soft Lotale Gruppen Testo-Comsoft-Users Testo-Comsoft-Ivers Testo-Comsoft-Admins Testo-Comsoft-Admins Detronsche Unterschritten PDF Enstellungen	Unterschrift anfordem bei: Aam guittieren Aameinstellungen ändem
	 ✓ Benennung oder Inhalt einer Zone ändem ✓ Einstellungen im Systembereich ändem ✓ PDF Bericht erstellen
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- Electronic signatures with information about the reason for the signature, e.g. to change configuration
- An electronic signature can be made mandatory for defined user activities



Documentation and services related to testo Saveris 21 CFR Part 11

Included in the testo Saveris CFR software package:

Independent certificate by Fraunhofer IESE Institute

Tested measurement data monitoring system with certificate: the Fraunhofer Institute for Experimental Software Engineering confirms that the testo Saveris measurement data monitoring system meets 21 CFR Part 11 requirements. Testing took place in accordance with the evaluation guidelines of the GAMP Special Interest Group: Complying with 21 CFR Part 11, Electronic Records and Electronic Signatures.



Services related to the testo Saveris CFR software

Testo offers full services for calibration and qualification/validation

Calibration and adjustment:

- Adjustment software using the customer's own calibrations/ adjustments are possible (password protection, historical traceability of the adjustment data in the testo Saveris CFR software)
- Storage of calibration date in the probe, calibration reminder via SMS or e-mail
- Calibration service in laboratories and on site in numerous countries. To find out more, contact your nearest Testo branch, Testo Industrial Services or Testo partner in your country.

Overview: qualification and validation packages

Premium:

The "Premium" package offers you fully comprehensive GAMP5 validation, which can include your specific requirements for implementing risk analysis, after which you can skip directly to productive use. The modular and detailed risk analysis process (FMEA) and coherent validation documentation (uninterrupted serial numbering of the requirements, risks and measures) facilitates not only traceability but also the evaluation of future system alterations, quickly and securely.

More information at: www.testo-industrial-services.com

Documents to support your validation

These documents support you in the validation of the testo Saveris system based on GAMP5:

The Testo subsidiary Testo Industrial Services (TIS) offers you

Mapping (for optimum determination of probe location)
 Customised risk analyses in accordance with GAMP5

Documentation either in customer or Testo format

customised qualification and validation concepts for testo Saveris:

1. Customisable templates for risk analysis

- 2. Individually usable templates for
 - validation master plan

Qualification/validation:

• DQ, IQ, OQ, PQ (qualification)

validation specifications

Comfort:

The "Comfort" package also offers you a risk-based model. In this case, however, the design documentation as well as the proof of suitable peripheral conditions (IT environment and suitability/SOP training for staff) is your responsibility. Adaptation to specific requirements is not included, as the risk estimate is provided in a standard document.

Basic:

If you require only a technical configuration and function test of the monitoring system with GxP-compliant documentation, you will find the right solution in our "Basic" package. You can then integrate the package into your own CS validation.

www.testo.com