

testo Smart Connect – Data monitoring license

Flexible. Automated. Reliable.

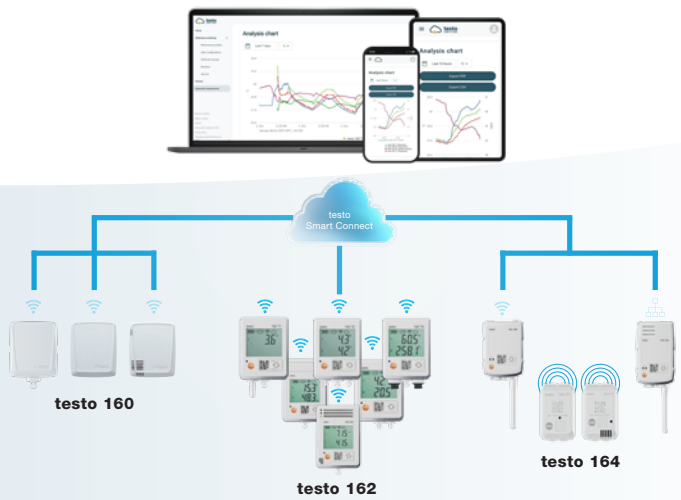
With the data monitoring license for testo Smart Connect, measurements can be documented and analysed in accordance with HACCP requirements

The central operating element for the monitoring and administration of all measurement locations

Automatic transmission and documentation of measured values, alerting in the event of limit value violations

All readings can be accessed anytime and anywhere

Connection to the testo Smart App for more smart advantages



To testo Smart Connect:
www.smartconnect.testo.com



With the connection of the online data loggers to the testo Smart Connect cloud, your indoor climate monitoring simply runs alongside daily business. Because you don't have to do anything yourself – the process is completely automated. The online data loggers record readings and send them directly to testo Smart Connect.

You can access all measurement data in the Cloud, whether via smartphone, tablet or PC. With a valid licence, you can configure the online data loggers and set threshold alarms. The rest will take care of itself.

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testo Smart Connect.



Comprehensive alarm features

The system offers a range of alarm options:

- Push notifications via testo Smart App
- Notifications via e-mail
- Optional paid-for SMS package
- Group-based alarm management
- Configurable warning and alarm delays
- Alarm time-outs

These functions enable precise and automated monitoring.



Intuitive user interface

The application impresses with a modern, clear interface that enables easy navigation and quick orientation – ideal for efficient day-to-day work.



App compatible

Both configuration and access to your monitoring system are possible directly via the testo Smart App. This saves time and enables maximum flexibility – even when you're on the move.



Efficient management through measurement profiles

Measurement profiles can be easily transferred to various measuring points. This simplifies scaling for your monitoring – no matter how many measurement points you have.



Powerful data analysis

The analysis functions allow:

- Simultaneous analysis of many loggers
- Simple filtering and display of alarms
- Interactive diagrams with zoom and selection features
- Data export in tabular format as CSV & PDF

This enables trends and deviations to be recognised quickly.



Automated report generation

Reports can be generated automatically at various intervals and sent by email. The content is flexibly customisable and stored in the cloud.



User management with clear roles

The system supports various user roles (Admin, Analyst, Standard) and enables secure user account creation by email – for clear responsibilities and strong security.



Digital licence and payment management

Licences can be managed directly online, including an overview of invoices and payment processing – transparent and time-saving.



Scalable Cloud platform

The platform is designed for continuous development.

Overview of all data monitoring license info:

Licence information	
Payment	Per year/month and per logger
Data storage	10 years
Number of wireless data loggers per account	Max. 500
Number of measuring points	Max. 500
Options for measured value limits	Upper/lower alarm limits, upper/lower warning limits
System notifications	Low battery level, radio connection interrupted, power supply interrupted
Alarm notifications	Push notification (testo Smart App required) , e-mail , SMS (can also be booked for a fee via AddOn) Alarm recipients (SMS): max. 25 Alarm recipients (push via testo Smart App): max. 25
Data analysis	Graph, table
Data export	Automated reports (.pdf) Manual export (.csv/ .pdf) Max. 30 measuring points
Number of users per account	Max. 25
Certificates	EN12830

The Testo Data Monitoring license is required to use the system.

Further information on the monitoring system:
<https://www.testo.com/en/products/saveris-cloud>

testo Smart Connect and online data loggers testo 160, testo 162, testo 164

1 General information

To ensure the security and integrity of your data and measured values during registration and use, Testo SE & Co. KGaA works exclusively with ISO 27001-certified service providers.

All information on data protection can be found at <https://static.testo.com/image/upload/Instruction-manual-and-Software/Software/privacy-policy-testo-smart-connect.pdf>

2 Which data are stored?

Recorded measured values and user inputs are saved. When the measurement values are saved, an older measurement value is not overwritten by the respective new one. Instead all data are documented as a time progression. This makes it possible to call up all data recorded in the past. This makes it possible to trace which value occurred at which time. This ensures traceability of the data if required. The following information is stored for risk monitoring purposes:

- Time points and account ID which are allocated to certain measurement data
- Measurement data
- Measuring points
- Name of the measuring points
- Alarms
- Alarm recipients

3 Where is the measurement data stored?

Measurement data from customers from Europe, Africa and the Middle East are stored in Germany.

Measurement data from America is stored in the USA and measurement data from the Asia-Pacific region is stored in Singapore.

4 Can my data be seen? (Availability)

Testo SE & Co. KGaA ensures the availability of your data with a state-of-the-art system architecture. If the online data loggers have no internet connection, the data are temporarily stored on these instruments and synchronized with testo Smart Connect as soon as a connection is re-established.

5 Are my data safe? (Data integrity)

All data and information are protected by the following measures, among others:

- Passwords are saved encrypted.
- The system is certified in accordance with DIN EN 12830 and ensures that data within the system are transmitted in an encrypted and tamper-proof manner.
- Call-up and presentation as well as the data transfer in testo Saveris are also encrypted.

6 Who has access to my data? (Confidentiality)

You and all those persons to whom you have, according to their role, granted writing or reading rights, have access to your data. All information exchange processes and transactions are protected, among other things, by unambiguous e-mail addresses and passwords defined by you. In addition, all the service providers we work with are certified in accordance with the international standard for information security ISO 27001.

Requirements testo 160, testo 162, testo 164 and testo Smart Connect

Installation and configuration requirements for online data loggers and testo Smart Connect:

	testo 160 & testo 162	testo 164 Gateway WiFi
Supported networks:	- IEEE 802.11 b/g/n - 2.4 GHz, transfer rate up to 150 MBps	- IEEE 802.11 a/b/g/n - 2.4 GHz, transfer rate up to 150 MBps
Supported network encryption:	Unencrypted, WEP, WPA (TKIP), WPA2 (TKIP, AES-CCMP) • WPA2 Enterprise authentication methods: TLS 1.0 is required for communication with the Radius-server EAP-TLS, EAP-TTLS-TLS, EAP-TTLS-MSCHAPv2, EAP-TTLS-PSK, EAP-PEAP0-TLS, EAP-PEAP0-MSCHAPv2, EAP-PEAP0-PSK, EAP-PEAP1-TLS, EAP-PEAP1 MSCHAPv2, EAP-PEAP1-PSK	
Certificate types – length:	SHA1 (160 bit length) SHA256 (256 bit length) MD5 (128 bit length) DHE (2048 bit length) ECDHE (160 bit length) RSA(max. 2048 bit length)	
Router/firewall port sharing (outgoing)	TCP: Port 8883; MQTT protocol (TLS 1.2) UDP: Port 53 (DNS name resolution), port 123 (SNTP time synchronization).	
NTP time server:	Pool.ntp.org (f required, own NTP time server definable)	
Identification:	IP address: Dynamic (DHCP) or static. Unique MAC address	

Cloud IP addresses

Cloud address:	smartconnect.testo.com	
Commissioning:	mqa.intl.saveris2.net	18.159.63.21
	broker.gl.p.iot.saveris.net	3.121.238.6
	mqb.intl.saveris2.net	18.158.85.58
Standard operation:		
Europe	mqa.eu.p.iot.saveris.net	18.159.164.226
	mqb.eu.p.iot.saveris.net	3.120.71.132
		18.158.133.154
	mqc.eu.p.iot.saveris.net	3.123.226.237
Asia	mqa.ap.p.iot.saveris.net	52.74.122.99
	mqb.ap.p.iot.saveris.net	18.140.27.22
		54.251.91.49
	mqc.ap.iot.saveris.net	52.221.73.165
America	mqa.am.p.iot.saveris.net	52.35.239.229
	mqb.am.p.saveris.net	52.24.54.185
		54.186.102.41
	mqc.am.p.iot.saveris.net	35.167.119.240

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Subject to change, including technical modifications.