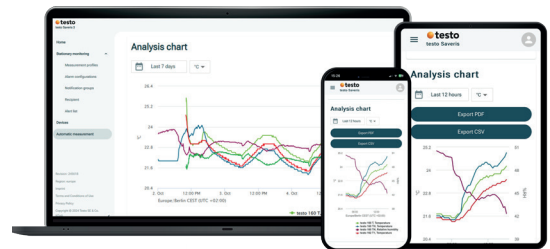


Monitoring system

testo 164 – Mini online data logger system for monitoring temperature and humidity



Limit value violation alarms by push notification, e-mail or (optionally) SMS

Connection to the testo Smart App: Simple commissioning, push alarms and dashboard

Automatic measurement value documentation in testo Saveris (Cloud)

Data transmission to Gateway via proprietary wireless connection

Small size & unobtrusive design



The payable Testo Data Monitoring Licence is required to use the system.



The testo 164 online data loggers are part of the testo 160 online data logger system. They record measurement values (temperature and humidity) and send them directly to the testo Saveris Cloud via a WLAN connection.

If limit values are exceeded, the testo Smart App alerts you directly via push notification of limit value violations. Alternatively, you can be notified by email or SMS.

You can access all measurement data and analysis functions anytime and anywhere with your internet-enabled smartphone, tablet, or PC.

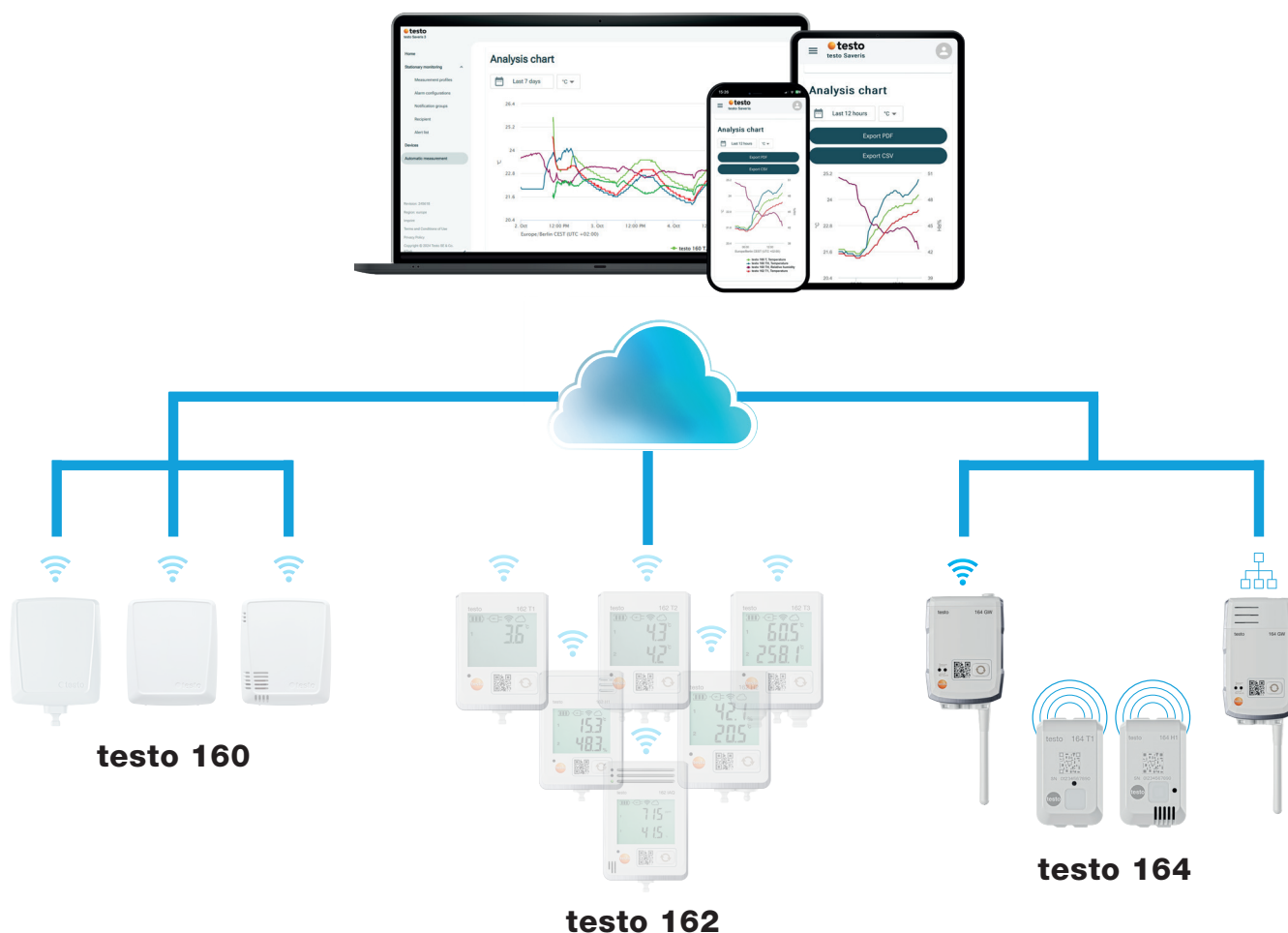
A valid license must be purchased to operate the online data loggers in the testo Saveris Cloud (Data Monitoring License).

How indoor climate monitoring works with the **testo 160 online data logger system**

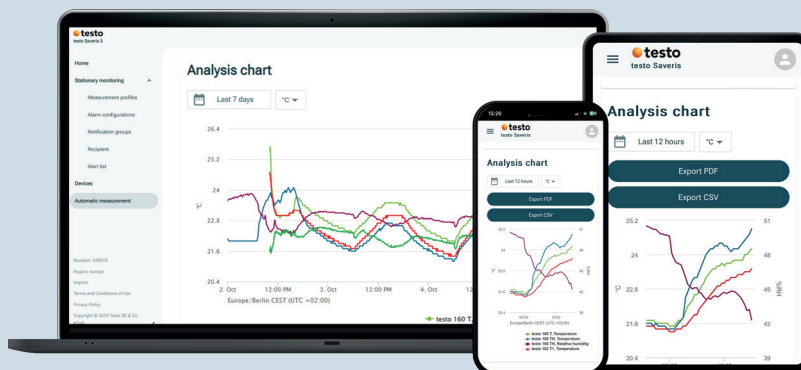
The testo 160 online data logger system consists of the hardware components (testo 160, testo 162, testo 164), testo Saveris Cloud and testo Smart App.

The testo Saveris Cloud is the central data platform. Measured values can be viewed and analyzed there.





The products testo 160, testo 162 and testo 164 offer you maximum flexibility thanks to their wide range of variants and can be easily combined and expanded in your Testo account.



Automated measurement monitoring. Thanks to cloud connection.



With the online data loggers connected to the testo Saveris Cloud, your indoor climate monitoring takes place effortlessly in the background. You don't have to do anything yourself – the process is fully automated. You can access all measurement data in the cloud via smartphone, tablet or PC. All you need is a valid license and to set up the system once: configure the online data loggers and set limit alarms. The rest takes care of itself.

-  **Central control for monitoring and managing all measuring points**
-  **Automatic transmission and documentation of readings, alarms when limit values are exceeded**
-  **All readings can be accessed anytime and anywhere**
-  **Link to the testo Smart App for further smart benefits**

**Check out the
testo Saveris Cloud
now!**



Order no. Data Monitoring License: 0526 5161

Order data for online data loggers

testo 164 T1

testo 164 T1 - Mini online data logger with integrated temperature sensor



Order no. 0572 1641 01

testo 164 H1

testo 164 H1 - Mini online data logger with integrated temperature and humidity sensor



Order no. 0572 1644 01

testo 164 DC

testo 164 DC - Mini online door contact data logger



Order no. 0572 1646 01

testo 164 Gateway Ethernet

testo 164 GW - Gateway for mini online data loggers with Ethernet



Order no. 0572 1649 01

testo 164 Gateway WLAN

testo 164 GW - Gateway for mini online data loggers with wireless LAN



Order no. 0572 1648 01

Technical data for testo 164 mini online data loggers

| | Mini online data logger testo 164 T1 | Mini online data logger testo 164 H1 | Mini online door contact data logger testo 164 DC |
|--|---|---|--|
| Temperature measurement | | | |
| Sensor type | digital | digital | Door contact |
| Measuring range | -30 to +70 °C | -10 to +50 °C | - |
| Accuracy | ±0.5 °C | ±0.5 °C | - |
| Resolution | 0.1 °C | 0.1 °C | - |
| Humidity measurement | | | |
| Sensor type | - | digital | - |
| Measuring range | - | 0 to 100 %RH (non-condensing) | - |
| Accuracy | - | ≤ ±5 %RH (0 to <10 %RH) ≤ ±3 %RH (10 to <35 %RH) ≤ ±2 %RH (35 to <65 %RH) ≤ ±3 %RH (65 to <90 %RH) ≤ ±5 %RH (90 to 100 %RH) ≤ ±1 %RH hysteresis ≤ ±1 %RH drift per year ≤ ±0.06 %RH/K (0 to 60 °C) | - |
| Resolution | - | 0.1 %RH | - |
| Connectivity | | | |
| Standard | Sub 1 GHz (IEEE 802.15.4) | | |
| Security | - | | |
| Wireless Range (Logger to Gateway) | 50 to 120 m | | |
| Certificates/Approvals | | | |
| | EN12830, HACCP, NSF | - | - |
| General information | | | |
| Operating temperature | -30 to +70 °C | -10 to +50 °C | -30 to +70 °C |
| Storage temperature | -30 to +70 °C | -30 to +60 °C | -30 to +70 °C |
| Protection class | IP67 | IP20 | IP67 |
| Measuring cycle & communication cycle | 1 min to 24 h | | |
| Memory | 300 readings | | |
| Voltage supply | Battery (non-replaceable) | | |
| Battery life (measurement & communica- tion cycle of 15 min) | 8 years | | |
| Dimensions | 62.6 x 38 x 17.5 mm | | |
| Weight (including batteries) | 15 g | 15 g | 17 g |

Technical data for testo 164 mini online data loggers

| | Gateway for mini online data logger testo 164 Gateway WLAN | Gateway for mini online data logger testo 164 Gateway Ethernet |
|--|---|---|
| Temperature measurement | | |
| Sensor type | Data transmission | Data transmission |
| Connectivity | | |
| Standard | Sub 1 GHz / WLAN | Sub 1 GHz / Ethernet |
| General information | | |
| Operating temperature | 0 to +50 °C | |
| Storage temperature | -30 to +60 °C | |
| Protection class | IP65 | IP42 |
| Measuring cycle & communication cycle | Permanent connection | |
| Memory | 0 | |
| Voltage supply | External power supply 4xAA backup battery | |
| Battery life (measurement & communication cycle of 15 min) | Switch-off after 10 minutes | |
| Dimensions | 69 x 105 x 29 mm | 69 x 119 x 29 mm |
| Weight (including batteries) | 220 g (with batteries) | 250 g (with batteries) |

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Subject to change, including technical modifications.

Accessories

| | Order no. |
|-----------------------------------|-----------|
| Magnetic adapter for wall bracket | 0554 2001 |

