



## WiFi data logger system · testo Saveris 2

Instruction manual





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## 2 System

### 2.1 System overview

The testo Saveris 2 WiFi data logger system is the modern solution for monitoring temperature and humidity values in storerooms and work rooms.

The system consists of WiFi data loggers and a Cloud data storage system. The testo Saveris 2 WiFi data loggers record temperature and humidity reliably at adjustable intervals and transmit the readings directly to the Testo Cloud via WLAN. The readings stored in the Cloud can be analyzed at any time, anywhere, using an internet-enabled smartphone, tablet or PC. Limit value violations are immediately reported via e-mail, or optionally via SMS.

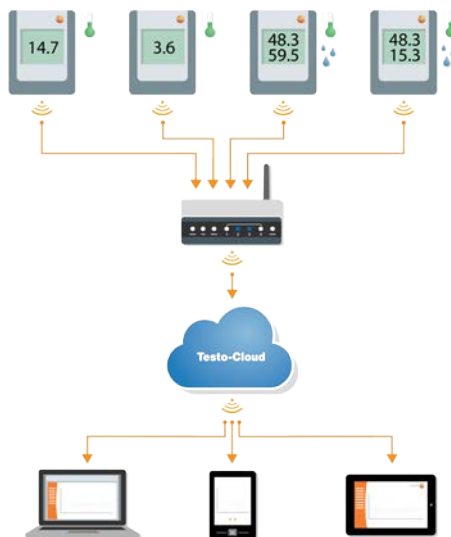
Similarly, WiFi data loggers can be programmed via the Testo Cloud and analyses set up.

Record readings  
with WiFi data  
loggers

WiFi router (at  
customer site)

Save the  
readings in the  
Testo Cloud

Call up readings  
on any terminal  
device: PC,  
smartphone,  
tablet



### 3 First steps

1. Take the data logger out of the packaging.
2. Remove the data logger from the wall bracket. (See Section 7.3)
3. Loosen the battery cover by slightly undoing the screws on the back of the housing.
4. Remove the insulation strips from the battery compartment.  
The data logger is now activated.
5. Tighten the screws on the back of the housing back up.

The Quick Start Guide is provided to assist you when you take your first steps with commissioning the testo Saveris 2.

It can help you with logging in WiFi data loggers.

- In the command bar, click on the icon  to open the **Quick Start Guide**.

# 4 Offline Configuration

As an alternative to creating the configuration file in the Quick Start Guide with subsequent download of the XML configuration file, the WiFi data logger can also be configured via a PDF form.



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## Note

You need the Adobe Reader program (version 10 or later) to use the PDF form correctly. If you have not installed Adobe Reader, you can go to the following address to download it free of charge:

<http://get.adobe.com/reader/>.

---

1. Connect the WiFi data logger to the PC.
2. Open the file **WifiConf.pdf** on the external drive **SAVERIS 2**.
3. Copy your Account ID and paste it into the relevant field on the PDF form. You will find the Account ID in the testo Saveris 2 software under **Configuration -> Account ID**.
4. Enter the **Network name (SSID)** and, if necessary, your **WLAN password** in the relevant fields on the PDF form.
5. Click on the **Save configuration** button.  
A dialogue box opens for exporting the form data.
6. Select the external drive **SAVERIS 2** as the storage location and save the form data (configuration file **WiFiConf\_Daten.xml**) on it.
7. Disconnect the USB connection to the PC to complete the configuration of the logger.



---

## Note

You can also save the configuration file locally on your computer and configure other WiFi data loggers even faster by simply copying the XML configuration file onto their external drive (**Saveris 2**).

---

## 5 Licenses

When purchasing your Saveris 2 system you will receive a free basic license. Some measuring functions which are displayed in your Saveris 2 system are inactive. By expanding your license you can activate and use these functions. In the header you can see which license you are currently using.

### Purchase license

By clicking on the license display in the header you will be redirected to the license shop. Here you can choose and purchase your license expansion.

Click on the symbol next to the inactive measuring function.



This also opens the license shop to expand your license.

---

<sup>1</sup> For item numbers: 0572 2001, 0572 2002, 0572 2003, 0572 2004, 0572 2005

<sup>2</sup> For item numbers: 0572 2031, 0572 2032, 0572 2033, 0572 2034, 0572 2035

# 6 WiFi data logger

## 6.1 Technical data

### 6.1.1 Measurement-specific data

| WiFi data logger     | T1              | T2                              | T3                                                              | H1                                            | H2                       |
|----------------------|-----------------|---------------------------------|-----------------------------------------------------------------|-----------------------------------------------|--------------------------|
| Order number         | 0572 2001       | 0572 2002                       | 0572 2003                                                       | 0572 2004                                     | 0572 2005                |
| Sensor type          | 1x NTC internal | 2x NTC or door contact external | 2x thermocouple type K/J/T external                             | 1x NTC/humidity internal                      | 1x NTC/humidity external |
| Measuring range      | -30 to +50 °C   | -50 to +150 °C                  | K: -195 to +1350 °C<br>J: -100 to +750 °C<br>T: -200 to +400 °C | -30 to +50 °C<br>0 to 100% RH <sup>3</sup>    | Probe-specific           |
| Accuracy<br>±1 digit | ± 0.5 °C        | ± 0.5 °C                        | ± (0.5 °C + 0.5% of reading)                                    | ± 0.5 °C<br>± 2% RH<br>(at 25 °C, 2 to 98 RH) | Probe-specific           |
| Resolution           | 0.1 °C          | 0.1 °C                          | 0.1 °C (-200 to +999.9 °C)<br>1 °C (remaining meas. range)      | 0.1 °C<br>0.1% RH                             | 0.1 °C<br>0.1% RH        |

| WiFi data logger | T1              | T2                              | T3                                  | H1                       | H2                       |
|------------------|-----------------|---------------------------------|-------------------------------------|--------------------------|--------------------------|
| Order number     | 0572 2031       | 0572 2032                       | 0572 2033                           | 0572 2034                | 0572 2035                |
| Sensor type      | 1x NTC internal | 2x NTC or door contact external | 2x thermocouple type K/J/T external | 1x NTC/humidity internal | 1x NTC/humidity external |

<sup>3</sup> Not for condensing atmosphere. For continuous application in high humidity (> 80% RH at ≤ 30 °C for > 12 h, > 60% RH at > 30 °C for > 12 h), please contact us ([www.testo-international.com](http://www.testo-international.com)).



| WiFi data logger  | T1            | T2             | T3                                                              | H1                                            | H2             |
|-------------------|---------------|----------------|-----------------------------------------------------------------|-----------------------------------------------|----------------|
| Order number      | 0572 2031     | 0572 2032      | 0572 2033                                                       | 0572 2034                                     | 0572 2035      |
| Measuring range   | -30 to +50 °C | -50 to +150 °C | K: -195 to +1350 °C<br>J: -100 to +750 °C<br>T: -200 to +400 °C | -30 to +50 °C<br>0 to 100% RH <sup>1</sup>    | Probe-specific |
| Accuracy ±1 digit | ± 0.5 °C      | ± 0.3 °C       | ± (0.5 °C + 0.5% of reading)                                    | ± 0.5 °C<br>± 2% RH<br>(at 25 °C, 2 to 98 RH) | Probe-specific |
| Resolution        | 0.1 °C        | 0.1 °C         | 0.1 °C                                                          | 0.1 °C<br>0.1% RH                             | Probe-specific |

Saveris 2 WiFi data loggers are supplied with a factory calibration certificate as standard. In many applications, it is recommended that you recalibrate the loggers every 12 months. This can be carried out by Testo Industrial Services (TIS) or other certified service providers with the aid of easy-to-use service software. Please contact Testo for further information.

## 6.1.2 General data

| WiFi data logger                        | T1                                              | T2        | T3        | H1        | H2        |
|-----------------------------------------|-------------------------------------------------|-----------|-----------|-----------|-----------|
| Order number                            | 0572 2001                                       | 0572 2002 | 0572 2003 | 0572 2004 | 0572 2005 |
| Operating temperature                   | -30 to +50 °C                                   |           |           |           |           |
| Storage temperature (without batteries) | -40 to +60 °C                                   |           |           |           |           |
| Protection class                        | IP 65                                           | IP 65     | IP 54     | IP 30     | IP 54     |
| Measuring cycle                         | 1 min <sup>4</sup> to 24 h (15 minutes default) |           |           |           |           |
| Communication cycle                     | 1 min to 24 h (15 minutes default)              |           |           |           |           |

<sup>4</sup> depending on the license purchased

| WiFi data logger             | T1                                                                                                                                                                                                                                                                                                                                                    | T2        | T3        | H1        | H2        |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|
| Order number                 | 0572 2001                                                                                                                                                                                                                                                                                                                                             | 0572 2002 | 0572 2003 | 0572 2004 | 0572 2005 |
| Memory                       | 10,000 readings/channel                                                                                                                                                                                                                                                                                                                               |           |           |           |           |
| Battery life                 | 12 months <sup>5</sup><br>at +25 °C, 15 min measuring cycle, 30 min day communication cycle (8 h/day)<br>and 120 min night communication cycle <sup>6</sup> (16 h/day)<br>at -30 °C and 15 min measuring cycle, 30 min day communication cycle<br>(8 h/day)<br>and 120 min night communication cycle (16 h/day)<br>with Energizer batteries 0515 0572 |           |           |           |           |
| Voltage supply               | 4 x AA AlMn batteries<br>Mains unit optional<br>for temperatures below -10 °C please use Energizer batteries 0515 0572                                                                                                                                                                                                                                |           |           |           |           |
| Dimensions                   | 95 x 75 x 30.5 mm                                                                                                                                                                                                                                                                                                                                     |           |           |           |           |
| Weight (including batteries) | 240 g                                                                                                                                                                                                                                                                                                                                                 |           |           |           |           |
| EN 12830-certified           | Yes                                                                                                                                                                                                                                                                                                                                                   | Yes       | No        | No        | No        |
| Door contact                 | No                                                                                                                                                                                                                                                                                                                                                    | Optional  | No        | No        | No        |
| Wall bracket                 | Included in delivery                                                                                                                                                                                                                                                                                                                                  |           |           |           |           |

| WiFi data logger                                       | T1                                              | T2        | T3        | H1        | H2        |
|--------------------------------------------------------|-------------------------------------------------|-----------|-----------|-----------|-----------|
| Order number                                           | 0572 2031                                       | 0572 2032 | 0572 2033 | 0572 2034 | 0572 2035 |
| Operating temperature                                  | -30 to +50 °C                                   |           |           |           |           |
| Storage temperature (without batteries)                | -40 to +60 °C                                   |           |           |           |           |
| Storage temperature (with supplied batteries)          | -10 to +50 °C                                   |           |           |           |           |
| Storage temperature (with Energizer, Li-Ion batteries) | -40 to +60 °C                                   |           |           |           |           |
| Protection class                                       | IP 65                                           | IP 65     | IP 54     | IP 30     | IP 54     |
| Measuring cycle                                        | 1 min <sup>7</sup> to 24 h (15 minutes default) |           |           |           |           |

<sup>5</sup> typical value, depending on the WLAN infrastructure

<sup>6</sup> Energy-saving mode

| WiFi data logger             | T1                                                                                                                                                                                                                                                                                                                                                    | T2                   | T3                   | H1                    | H2                   |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|-----------------------|----------------------|
| Order number                 | 0572 2031                                                                                                                                                                                                                                                                                                                                             | 0572 2032            | 0572 2033            | 0572 2034             | 0572 2035            |
| Communication cycle          | 1 min to 24 h (15 minutes default)                                                                                                                                                                                                                                                                                                                    |                      |                      |                       |                      |
| Memory                       | 10,000 readings/channel                                                                                                                                                                                                                                                                                                                               |                      |                      |                       |                      |
| Battery life                 | 12 months <sup>8</sup><br>at +25 °C, 15 min measuring cycle, 30 min day communication cycle (8 h/day)<br>and 120 min night communication cycle <sup>9</sup> (16 h/day)<br>at -30 °C and 15 min measuring cycle, 30 min day communication cycle<br>(8 h/day)<br>and 120 min night communication cycle (16 h/day)<br>with Energizer batteries 0515 0572 |                      |                      |                       |                      |
| Voltage supply               | 4 x AA AIMn batteries<br>Mains unit optional<br>for temperatures below -10 °C please use Energizer batteries 0515 0572                                                                                                                                                                                                                                |                      |                      |                       |                      |
| Dimensions                   | 95 x 75 x<br>30.5 mm                                                                                                                                                                                                                                                                                                                                  | 95 x 75 x<br>30.5 mm | 95 x 75 x<br>30.5 mm | 115 x 82 x<br>31.5 mm | 95 x 75 x<br>30.5 mm |
| Weight (including batteries) | 240 g                                                                                                                                                                                                                                                                                                                                                 |                      |                      |                       |                      |
| EN 12830-certified           | Yes                                                                                                                                                                                                                                                                                                                                                   | Yes                  | No                   | No                    | No                   |
| Door contact                 | No                                                                                                                                                                                                                                                                                                                                                    | Optional             | No                   | No                    | No                   |
| Wall bracket                 | Included in delivery                                                                                                                                                                                                                                                                                                                                  |                      |                      |                       |                      |



## Note

Please note that for EN 12830, annual checking and calibration must be carried out as specified in EN 13486. Contact us for more information.

<sup>7</sup> depending on the license purchased

<sup>8</sup> typical value, depending on the WiFi infrastructure

<sup>9</sup> Energy-saving mode

### 6.1.3 WiFi-specific data

| WiFi data logger          | T1                                      | T2        | T3        | H1        | H2        |
|---------------------------|-----------------------------------------|-----------|-----------|-----------|-----------|
| Order number              | 0572 2001                               | 0572 2002 | 0572 2003 | 0572 2004 | 0572 2005 |
| Radio frequency           | 2.4 GHz (IEEE 802.11 b/g/n)             |           |           |           |           |
| General encryption method | WEP, WPA (TKIP), WPA2 (TKIP, AES, CCMP) |           |           |           |           |

| WiFi data logger          | T1                                                                                                                                                        | T2        | T3        | H1        | H2        |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|
| Order number              | 0572 2031                                                                                                                                                 | 0572 2032 | 0572 2033 | 0572 2034 | 0572 2035 |
| Radio frequency           | 2.4 GHz (IEEE 802.11 b/g/n/x)                                                                                                                             |           |           |           |           |
| General encryption method | WEP, WPA (TKIP), WPA2 (TKIP, AES, CCMP)                                                                                                                   |           |           |           |           |
| WPA2 Enterprise           | EAP-TLS, EAP-TTLS-TLS, EAP-TTLS-MSCHAPv2, EAP-TTLS-PSK, EAP-PEAP0-TLS, EAP-PAP0-MSCHAPv2, EAP-PEAP0-PSK, EAP-PEAP1-TLS, EAP-PEAP1-MSCHAPv2, EAP-PEAP1-PSK |           |           |           |           |

### 6.1.4 Technical data for a secure wireless LAN

#### Ports

The testo Saveris 2 WiFi data loggers use the MQTT protocol, which communicates via port TCP 1883<sup>10</sup> or 8883<sup>11</sup>.

These UDP port approvals are also required:

- Port 53 (DNS name resolution)
- Port 123 (NTP time synchronization)

All ports must be able to communicate only externally to the Cloud. No bi-directional port approvals are necessary.

#### Ping

The default gateway, which is communicated to the probe via DHCP or manually, must answer the PING request of the WiFi data logger.

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<sup>10</sup> For item numbers: 0572 2001, 0572 2002, 0572 2003, 0572 2004, 0572 2005

<sup>11</sup> For item numbers: 0572 2031, 0572 2032, 0572 2033, 0572 2034, 0572 2035



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**Note**

During the first configuration, it is possible to select whether DHCP or Static IP is used (select expert mode for the corresponding information)

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**testo Saveris 2 application**

The testo Saveris 2 application is accessible via a normal, up-to-date browser (www). The standard TCP ports http (80) and https (443) are used.

## 6.1.5 Authorizations

### 6.1.5.1 European Union, EFTA countries

T1 (0572 2001):



Wir messen es.



#### EG-Konformitätserklärung

#### EC declaration of conformity

Für die nachfolgend bezeichneten Produkte:

We confirm that the following products:

**testo Saveris 2 – T1**

Best. Nr.: / Order No.: 0572 2001

wird bestätigt, daß sie den wesentlichen Schutzanforderungen entsprechen, die in der Richtlinie des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über die **elektromagnetische Verträglichkeit** (2014/30/EU) festgelegt sind.

corresponds with the main protection requirements which are fixed in the EEC "Council Directive 2014/30 EU on the approximation of the laws of the member states relating to electromagnetic compatibility". The declaration applies to all samples of the above mentioned product.

Zur Beurteilung der Erzeugnisse hinsichtlich elektromagnetischer Verträglichkeit wurden folgende Normen herangezogen:

*For assessment of the product following standards have been called upon:*

**Standards:**

ETSI EN 300 328 V1.8.1: 2012  
ETSI EN 301 489-01 V1.9.2: 2011  
ETSI EN 301 489-17 V2.2.1: 2012

Diese Erklärung wird für:

*This declaration is given in responsibility for:*

**Testo AG**  
Postfach / P.O. Box 1140  
79849 Lenzkirch / Germany  
[www.testo.com](http://www.testo.com)

abgegeben durch / by:

Dr. Jörk Hebenstreit  
(Name / name)

Uwe Haury  
(Name / name)

Managing Director  
(Stellung im Betrieb des Herstellers)  
(Position in the company of the manufacturer)

Head of Electrical Engineering  
(Stellung im Betrieb des Herstellers)  
(Position in the company of the manufacturer)

Lenzkirch, 01.10.2014  
(Ort, Datum / place, date)



Der Hersteller betreibt ein zertifiziertes Qualitätssicherungssystem nach DIN ISO 9001

*The manufacturer operates a certified quality assurance system according to DIN ISO 9001*

(Rechtsgültige Unterschrift)  
(Legally valid signature)

(Rechtsgültige Unterschrift)  
(Legally valid signature)

T2 (0572 2002):



Wir messen es.



### EG-Konformitätserklärung

### EC declaration of conformity

Für die nachfolgend bezeichneten Produkte:

We confirm that the following products:

**testo Saveris 2 – T2**

Best. Nr.: / Order No.: 0572 2002

wird bestätigt, daß sie den wesentlichen  
Schutzanforderungen entsprechen, die in der  
Richtlinie des Rates zur Angleichung der  
Rechtsvorschriften der Mitgliedstaaten über die  
**elektromagnetische Verträglichkeit**  
(2014/30/EU) festgelegt sind.

corresponds with the main protection requirements which  
are fixed in the EEC  
"Council Directive 2014/30 EU on the approximation of  
the laws of the member states relating to  
electromagnetic compatibility"  
The declaration applies to all samples of the above  
mentioned product.

Zur Beurteilung der Erzeugnisse hinsichtlich  
elektromagnetischer Verträglichkeit wurden  
folgende Normen herangezogen:

*For assessment of the product following standards  
have been called upon:*

**Standards:**

ETSI EN 300 328 V1.8.1: 2012  
ETSI EN 301 489-01 V1.9.2: 2011  
ETSI EN 301 489-17 V2.2.1: 2012

Diese Erklärung wird für:

*This declaration is given in responsibility for:*

**Testo AG**  
Postfach / P.O. Box 1140  
79849 Lenzkirch / Germany  
[www.testo.com](http://www.testo.com)

abgegeben durch / by:

Dr. Jörk Hebenstreit  
(Name / name)

Uwe Haury  
(Name / name)

Managing Director  
(Stellung im Betrieb des Herstellers)  
(Position in the company of the manufacturer)

Head of Electrical Engineering  
(Stellung im Betrieb des Herstellers)  
(Position in the company of the manufacturer)

Lenzkirch, 02.10.2014  
(Ort, Datum / place, date)

(Rechtsgültige Unterschrift)  
(Legally valid signature)

(Rechtsgültige Unterschrift)  
(Legally valid signature)



Der Hersteller betreibt  
ein zertifiziertes  
Qualitätssicherungssystem  
nach DIN ISO 9001

*The manufacturer operates  
a certified quality assurance  
system according  
to DIN ISO 9001*

T3 (0572 2003):



Wir messen es.



### EG-Konformitätserklärung

### EC declaration of conformity

Für die nachfolgend bezeichneten Produkte:

We confirm that the following products:

**testo Saveris 2 – T3**

Best. Nr.: / Order No.: 0572 2003

wird bestätigt, daß sie den wesentlichen Schutzanforderungen entsprechen, die in der Richtlinie des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über die **elektromagnetische Verträglichkeit** (2014/30/EU) festgelegt sind.

corresponds with the main protection requirements which are fixed in the EEC "Council Directive 2014/30 EU on the approximation of the laws of the member states relating to electromagnetic compatibility". The declaration applies to all samples of the above mentioned product.

Zur Beurteilung der Erzeugnisse hinsichtlich elektromagnetischer Verträglichkeit wurden folgende Normen herangezogen:

For assessment of the product following standards have been called upon:

#### **Standards:**

ETSI EN 300 328 V1.8.1: 2012  
ETSI EN 301 489-01 V1.9.2: 2011  
ETSI EN 301 489-17 V2.2.1: 2012

Diese Erklärung wird für:

This declaration is given in responsibility for:

**Testo AG**  
Postfach / P.O. Box 1140  
79849 Lenzkirch / Germany  
[www.testo.com](http://www.testo.com)

abgegeben durch / by:

Dr. Jörk Hebenstreit  
(Name / name)

Uwe Haury  
(Name / name)

Managing Director  
(Stellung im Betrieb des Herstellers)  
(Position in the company of the manufacturer)

Head of Electrical Engineering  
(Stellung im Betrieb des Herstellers)  
(Position in the company of the manufacturer)

Lenzkirch, 02.10.2014  
(Ort, Datum / place, date)

(Rechtsgültige Unterschrift)  
(Legally valid signature)

(Rechtsgültige Unterschrift)  
(Legally valid signature)



Der Hersteller betreibt ein zertifiziertes Qualitätssicherungssystem nach DIN ISO 9001

The manufacturer operates a certified quality assurance system according to DIN ISO 9001



H1 (0572 2004):



Wir messen es.



### EG-Konformitätserklärung

### EC declaration of conformity

Für die nachfolgend bezeichneten Produkte:

We confirm that the following products:

**testo Saveris 2 – H1**

Best. Nr.: / Order No.: 0572 2004

wird bestätigt, daß sie den wesentlichen Schutzanforderungen entsprechen, die in der Richtlinie des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über die **elektromagnetische Verträglichkeit** (2014/30/EU) festgelegt sind.

corresponds with the main protection requirements which are fixed in the EEC "Council Directive 2014/30 EU on the approximation of the laws of the member states relating to electromagnetic compatibility". The declaration applies to all samples of the above mentioned product.

Zur Beurteilung der Erzeugnisse hinsichtlich elektromagnetischer Verträglichkeit wurden folgende Normen herangezogen:

*For assessment of the product following standards have been called upon:*

**Standards:**

ETSI EN 300 328 V1.8.1: 2012  
ETSI EN 301 489-01 V1.9.2: 2011  
ETSI EN 301 489-17 V2.2.1: 2012

Diese Erklärung wird für:

*This declaration is given in responsibility for:*

Testo AG  
Postfach / P.O. Box 1140  
79849 Lenzkirch / Germany  
[www.testo.com](http://www.testo.com)

abgegeben durch / by:

Dr. Jörk Hebenstreit  
(Name / name)

Uwe Haury  
(Name / name)

Managing Director  
(Stellung im Betrieb des Herstellers)  
(Position in the company of the manufacturer)

Head of Electrical Engineering  
(Stellung im Betrieb des Herstellers)  
(Position in the company of the manufacturer)

Lenzkirch, 01.10.2014  
(Ort, Datum / place, date)

(Rechtsgültige Unterschrift)  
(Legally valid signature)

(Rechtsgültige Unterschrift)  
(Legally valid signature)



Der Hersteller betreibt ein zertifiziertes Qualitätssicherungssystem nach DIN ISO 9001

*The manufacturer operates a certified quality assurance system according to DIN ISO 9001*

H2 (0572 2005):



Wir messen es.



### EG-Konformitätserklärung

### EC declaration of conformity

Für die nachfolgend bezeichneten Produkte:

We confirm that the following products:

**testo Saveris 2 – H2**

Best. Nr.: / Order No.: 0572 2005

wird bestätigt, daß sie den wesentlichen Schutzanforderungen entsprechen, die in der Richtlinie des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über die **elektromagnetische Verträglichkeit** (2014/30/EU) festgelegt sind.

corresponds with the main protection requirements which are fixed in the EEC "Council Directive 2014/30 EU on the approximation of the laws of the member states relating to electromagnetic compatibility". The declaration applies to all samples of the above mentioned product.

Zur Beurteilung der Erzeugnisse hinsichtlich elektromagnetischer Verträglichkeit wurden folgende Normen herangezogen:

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Managing Director  
(Stellung im Betrieb des Herstellers)  
(Position in the company of the manufacturer)

Head of Electrical Engineering  
(Stellung im Betrieb des Herstellers)  
(Position in the company of the manufacturer)

Lenzkirch, 02.10.2014  
(Ort, Datum / place, date)

(Rechtsgültige Unterschrift)  
(Legally valid signature)

(Rechtsgültige Unterschrift)  
(Legally valid signature)



Der Hersteller betreibt ein zertifiziertes Qualitätssicherungssystem nach DIN ISO 9001

*The manufacturer operates a certified quality assurance system according to DIN ISO 9001*

### **6.1.5.2 USA/Canada**

This instrument complies with Part 15C of the FCC Rules and Industry Canada RSS-210 (revision 8). Commissioning is subject to the following two conditions:

(1) This instrument must not cause any harmful interference and (2) this instrument must be able to accept interference, even if this could have undesired effects on operation.

#### **USA**

Contains FCC ID: N8NLS4WF0459

T1 FCC ID: 2ACVD-05722031

T2 FCC ID: 2ACVD-05722032

T3 FCC ID: 2ACVD-05722033

H1 FCC ID: 2ACVD-05722034

H2 FCC ID: 2ACVD-05722035

T1 FCC ID: WAF-0572203X

T2 FCC ID: WAF-0572203X

T3 FCC ID: WAF-0572203X

H1 FCC ID: WAF-05722034

H2 FCC ID: WAF-0572203X

#### **Canada**

Contains IC: 21461-LSD4WF0459

T1 IC: 12231A-05722031

T2 IC: 12231A-05722032

T3 IC: 12231A-05722033

H1 IC: 12231A-05722034

H2 IC: 12231A-05722035

T1 IC: 6127B-0572203X

T2 IC: 6127B-0572203X

T3 IC: 6127B-0572203X

H1 IC: 6127B-05722034

H2 IC: 6127B-0572203X

6.1.5.3 Japan

T1 (0572 2001):   204-440017

T2 (0572 2002):   204-440018

T3 (0572 2003):   204-440019

H1 (0572 2004):   204-440020

H2 (0572 2005):   204-440021

6.1.5.4 Australia



6.1.5.5 China

T1 (0572 2001): CMIIT ID: 2014DP5734

T2 (0572 2002): CMIIT ID: 2014DP5735

T3 (0572 2003): CMIIT ID: 2014DP5736

H1 (0572 2004): CMIIT ID: 2014DP5732

H2 (0572 2005): CMIIT ID: 2014DP5733

6.1.5.6 Korea



| Instrument model      | Saveris 2 T1                           | Saveris 2 T2            | Saveris 2 T3            | Saveris 2 H1            | Saveris 2 H2            |
|-----------------------|----------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Identification number | MSIP-CRM-Toi-Saveris2T1                | MSIP-CRM-Toi-Saveris2T2 | MSIP-CRM-Toi-Saveris2T3 | MSIP-CRM-Toi-Saveris2H1 | MSIP-CRM-Toi-Saveris2H2 |
| Applicant             | Testo Instruments (Shenzhen) Co., Ltd. |                         |                         |                         |                         |
| Manufacturer          | Testo Instruments (Shenzhen) Co., Ltd. |                         |                         |                         |                         |

| Instrument model       | Saveris 2 T1                                  | Saveris 2 T2 | Saveris 2 T3 | Saveris 2 H1 | Saveris 2 H2 |
|------------------------|-----------------------------------------------|--------------|--------------|--------------|--------------|
| Country of manufacture | China                                         |              |              |              |              |
| Note                   | 해당 무선설비가 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없음 |              |              |              |              |

### 6.1.5.7 Russia

Authorized.

### 6.1.5.8 Chile

Authorized.

### 6.1.5.9 Singapore

Authorized.

### 6.1.5.10 Ukraine

Authorized.

### 6.1.5.11 United Arab Emirates

Authorized.

## 6.1.6 Authorizations (2016)

### Approval and Certification

|          |                                                                                                                 |
|----------|-----------------------------------------------------------------------------------------------------------------|
| Product  | Saveris 2 T1 (2016)<br>Saveris 2 T2 (2016)<br>Saveris 2 T3 (2016)<br>Saveris 2 H1 (2016)<br>Saveris 2 H2 (2016) |
| Mat.-No. | 0572 2031<br>0572 2032<br>0572 2033<br>0572 2034<br>0572 2035                                                   |
| Date     | 04.05.2017                                                                                                      |

**i** The use of the wireless module is subject to the regulations and stipulations of the respective country of use, and the module may only be used in countries for which a country certification has been granted. The user and every owner has the obligation to adhere to these regulations and prerequisites for use, and acknowledges that the re-sale, export, import etc. in particular in countries without wireless permits, is his responsibility.

| Country       | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Canada        | <p>Contains IC : 21461-LSD4WF0459</p> <p>T1, T2, T3, H2:<br/> IC: 6127B-0572203X<br/> H1:<br/> IC: 6127B-05722034</p> <p>IC Warnings</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Europa + EFTA |  <hr/>  The EU Declaration of Conformity can be found on the testo homepage <a href="http://www.testo.com">www.testo.com</a> under the product specific downloads. <hr/> <p><b>EU countries:</b><br/> Belgium (BE), Bulgaria (BG), Denmark (DK), Germany (DE), Estonia (EE), Finland (FI), France (FR), Greece (GR), Ireland (IE), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Romania (RO), Sweden (SE), Slovakia (SK), Slovenia (SI), Spain (ES), Czech Republic (CZ), Hungary (HU), United Kingdom (GB), Republic of Cyprus (CY).</p> <p><b>EFTA countries:</b><br/> Iceland, Liechtenstein, Norway, Switzerland</p> |
| Japan         |   211-160704 <p>Japan Information</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| South Korea   |  <p>T1: MSIP-CRM-te2-05722031<br/> T2: MSIP-CRM-te2-05722032<br/> T3: MSIP-CRM-te2-05722033<br/> H1: MSIP-CRM-te2-05722034<br/> H2: MSIP-CRM-te2-05722035</p> <p>KCC Warning</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| USA               | <p>Contains FCC ID: N8NLSD4WF0459</p> <p>T1, T2, T3, H2:<br/>FCC ID: WAF-0572203X<br/>H1:<br/>FCC ID: WAF-05722034</p> <p>FCC Warnings</p>                                                                                                                                                                                                                                                                                     |         |        |            |       |           |                 |                  |                                              |         |                                  |         |              |                   |          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|------------|-------|-----------|-----------------|------------------|----------------------------------------------|---------|----------------------------------|---------|--------------|-------------------|----------|
| Wi-Fi-Module      | <table> <tr> <th>Feature</th><th>Values</th></tr> <tr> <td>WLAN Range</td><td>100 m</td></tr> <tr> <td>WLAN type</td><td>LSD4WF0459-01D0</td></tr> <tr> <td>WLAN radio class</td><td>Accord with the standard of IEEE 802.11b/g/n</td></tr> <tr> <td>Company</td><td>Lierda Technology Group co., LTD</td></tr> <tr> <td>RF Band</td><td>2412-2472MHz</td></tr> <tr> <td>Transmitter Power</td><td>13.42dBm</td></tr> </table> | Feature | Values | WLAN Range | 100 m | WLAN type | LSD4WF0459-01D0 | WLAN radio class | Accord with the standard of IEEE 802.11b/g/n | Company | Lierda Technology Group co., LTD | RF Band | 2412-2472MHz | Transmitter Power | 13.42dBm |
| Feature           | Values                                                                                                                                                                                                                                                                                                                                                                                                                         |         |        |            |       |           |                 |                  |                                              |         |                                  |         |              |                   |          |
| WLAN Range        | 100 m                                                                                                                                                                                                                                                                                                                                                                                                                          |         |        |            |       |           |                 |                  |                                              |         |                                  |         |              |                   |          |
| WLAN type         | LSD4WF0459-01D0                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |            |       |           |                 |                  |                                              |         |                                  |         |              |                   |          |
| WLAN radio class  | Accord with the standard of IEEE 802.11b/g/n                                                                                                                                                                                                                                                                                                                                                                                   |         |        |            |       |           |                 |                  |                                              |         |                                  |         |              |                   |          |
| Company           | Lierda Technology Group co., LTD                                                                                                                                                                                                                                                                                                                                                                                               |         |        |            |       |           |                 |                  |                                              |         |                                  |         |              |                   |          |
| RF Band           | 2412-2472MHz                                                                                                                                                                                                                                                                                                                                                                                                                   |         |        |            |       |           |                 |                  |                                              |         |                                  |         |              |                   |          |
| Transmitter Power | 13.42dBm                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |            |       |           |                 |                  |                                              |         |                                  |         |              |                   |          |
| EN 12830          | Acc. to EN 12830 -S,T,A,C,D,1,<br>-25...+25°C                                                                                                                                                                                                                                                                                                                                                                                  |         |        |            |       |           |                 |                  |                                              |         |                                  |         |              |                   |          |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |            |       |           |                 |                  |                                              |         |                                  |         |              |                   |          |

### IC Warnings

This instrument complies with Part 15C of the FCC Rules and Industry Canada RSS-210 (revision 8). Commissioning is subject to the following two conditions:

- (1) This instrument must not cause any harmful interference and
- (2) this instrument must be able to cope with interference, even if this has undesirable effects on operation.

Cet appareil satisfait à la partie 15C des directives FCC et au standard Industrie Canada RSS-210 (révision 8). Sa mise en service est soumise aux deux conditions suivantes :

- (1) cet appareil ne doit causer aucune interférence dangereuse et
- (2) cet appareil doit supporter toute interférence, y compris des interférences qui provoquerait des opérations indésirables.

### FCC Warnings

Information from the FCC (Federal Communications Commission)

#### **For your own safety**

Shielded cables should be used for a composite interface. This is to ensure continued protection against radio frequency interference.

### **FCC warning statement**

This equipment has been tested and found to comply with the limits for a Class C digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a

particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **Caution**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Shielded interface cable must be used in order to comply with the emission limits.

### **Warning**

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

### **Japan Information**

当該機器には電波法に基づく、技術基準適合証明等を受けた特定無線設備を装着している。

### **KCC Warning**

해당 무선 설비는 운용 중 전파혼신 가능성이 있음.

## **6.2 Safety and the environment**

### **6.2.1 General safety instructions**

- Only operate the product properly, for its intended purpose and within the parameters specified in the technical data. Do not apply any force.
- Do not commission the instrument if there are signs of damage on the housing.
- Only use accessories and probes configured for Saveris 2.
- Dangers may also arise from the systems being measured or the measuring environment: always comply with the locally valid safety regulations when carrying out measurements.
- Temperature information given on probes relates only to the measuring range of the sensor technology. Do not expose handles and feed lines to temperatures in excess of 70°C (158°F), unless they are expressly authorized for use at higher temperatures.



- Do not perform any contact measurements on uninsulated, live parts.
- Do not store the product together with solvents. Do not use any desiccants.
- Only carry out maintenance and repair work on this instrument described in the documentation. Follow the prescribed steps exactly. Use only original spare parts from Testo.

### **6.2.2 Safety instructions for patients with a cardiac pacemaker or implanted cardiac pacemaker**

- Handle the magnetic plate on the wall bracket with care and keep it in a safe place.
- Maintain a distance of 20 cm between your implant and the magnetic plate on the wall bracket.

### **6.2.3 Batteries**

- Improper use of batteries may cause the batteries to be destroyed, or lead to injury due to current surges, fire or escaping chemicals.
- Only use the batteries supplied in accordance with the instructions in the instruction manual.
- Do not short-circuit the batteries.
- Do not take the batteries apart and do not modify them.
- Do not expose the batteries to heavy impacts, water, fire or temperatures in excess of 60 °C.
- Do not store the batteries in the proximity of metal objects.
- In the event of contact with battery acid: rinse affected areas thoroughly with water, and if necessary consult a doctor.
- Do not use any leaky or damaged batteries.

### **6.2.4 Protecting the environment**

- Dispose of spent batteries in accordance with the relevant legal specifications.
- At the end of its useful life, deliver the product to the separate collection point for electric and electronic devices (observe local regulations) or return the product to Testo for disposal.

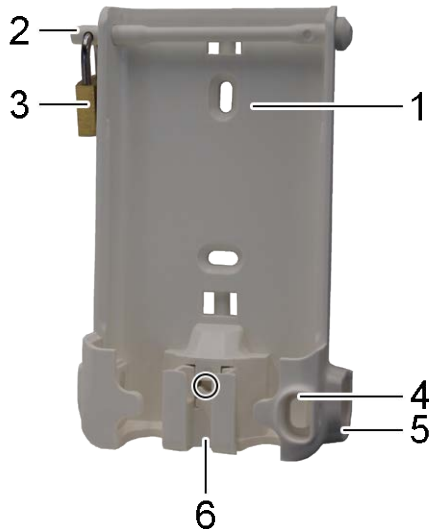
## 6.3 Wall bracket



### Note

The data loggers must only be mounted vertically. Here, the connections must point downwards. In the case of data loggers with a display, you need to pay attention to the reading direction. Otherwise, the measuring accuracy might be diminished.

The wall bracket ensures that the WiFi data logger is kept securely in place. Mounting materials are not included in the scope of delivery. Select mounting materials that are appropriate for the required mounting location.



(Suitable for: 0527 2001, 0527 2002, 0527 2003, 0527 2004, 0527 2005, 0527 2031, 0527 2032, 0527 2033, 0527 2035)

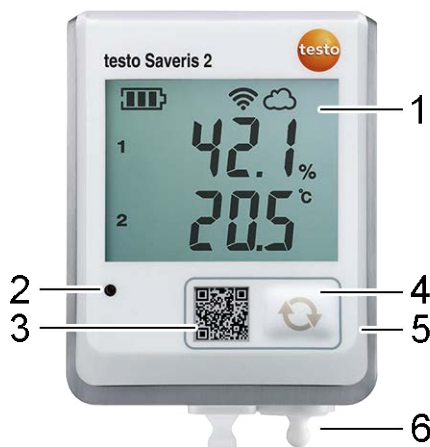
- 1 Wall bracket with notches for mounting materials (screws or cable ties)
- 2 Safety bolt
- 3 Lock
- 4 Storage compartment for USB port sealing plug
- 5 Storage compartment for probe socket sealing plug (left/right)
- 6 USB cable holder, folding: push down on the spot marked with a circle using a screwdriver and slide cable holder downwards.

(Suitable for: 0572 2034)

- 1 Wall bracket
- 2 Data logger
- 3 Unlocking tool
- 4 Magnetic plate (optionally available, order number: 0554 2001)
  - Insert the unlocking tool into the unlocking opening.
  - Pull the data logger up and out of the wall bracket.

## 6.4 Display and control elements

### 6.4.1 Overview



- 1 Display
- 2 Alarm LED, flashes red in the event of an alarm
- 3 QR code, for direct access to the instrument data in the Testo Cloud
- 4 Control key, to manually start data transfer
- 5 Battery compartment (on rear)
- 6 USB and probe sockets (on the bottom, instrument-specific)

### 6.4.2 Display icons

| Icon | Description                                                     |
|------|-----------------------------------------------------------------|
|      | Battery capacity 75% to 100%                                    |
|      | Battery capacity 50% to 74%                                     |
|      | Battery capacity 25% to 49%                                     |
|      | Battery capacity 5% to 24%, icon flashes: battery capacity < 5% |
|      | External power supply (via USB port)                            |
|      | WLAN signal strength 100%                                       |

| Icon                                                                              | Description                                                                                                   |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  | WLAN signal strength 75%                                                                                      |
|  | WLAN signal strength 50%                                                                                      |
|  | WLAN signal strength 25%                                                                                      |
|  | Data connection to the Testo Cloud exists, icon flashes: Data connection to the Testo Cloud being established |
|  | Alarm message                                                                                                 |
| <b>1</b>                                                                          | Measurement channel 1                                                                                         |
| <b>2</b>                                                                          | Measurement channel 2                                                                                         |
|  | Alarm status: upper limit value exceeded                                                                      |
|  | Alarm status: lower limit value undershot                                                                     |

### 6.4.3 LED display – configuration

| LED display                                                             | Description                                                                                                    |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Online data logger gives a short (200 ms) green flash every 30 seconds. | Online data logger is in standby mode, there is no configuration stored in the online data logger yet.         |
| Online data logger flashes green at one-second intervals.               | Online data logger is in configuration mode and can be configured within 5 minutes after activation.           |
| Online data logger gives 3 long red flashes after configuration.        | SSID/account ID is not correct.                                                                                |
| Online data logger gives 1 long (1 sec.) red flashes.                   | Online data logger was not configured within 5 minutes.                                                        |
| Online data logger gives 2 long red flashes after configuration.        | Online data logger is not connected to the access point.                                                       |
| Online data logger gives 2 short green flashes.                         | Configuration was successful, online data logger is connected to the Cloud and is switching to measuring mode. |

## 6.4.4 LED display – operation

| LED display                                                               | Description                                                                                                                                                          |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Online data logger which is already configured gives 2 short red flashes. | Online data logger is not connected to the access point, measurement data cannot be transmitted to the Cloud.                                                        |
| Online data logger gives 1 long green flash.                              | The online data logger has carried out a measurement.                                                                                                                |
| Online data logger gives 1 long red flash.                                | An alarm was detected by the online data logger.                                                                                                                     |
| Online data logger gives 2 short green flashes.                           | Measurement data was successfully transmitted to the Cloud, logger is back in the measuring cycle.                                                                   |
| Online data logger gives 4 long red flashes.                              | Briefly (< 1 sec) press the button on the front of the logger. If the online data logger flashes red 4 times again, the batteries are spent and need to be replaced. |
| Online data logger flashes alternately red / green.                       | A firmware update is being carried out.                                                                                                                              |

# 7 User interface

The screenshot shows the testo Saveris 2 web interface. At the top, a dark header bar contains the 'testo Saveris 2' logo, 'System status' with a red alarm bell icon (1), and user management options (2, 3). Below this is a light blue menu bar with 'Dashboard' (4), 'Analysis & reports -', 'Alarms -', and 'Configuration -'. The main content area (5) is divided into two sections: 'Measuring points' on the left and 'Active alarms' on the right. The 'Measuring points' section displays a table with columns for Status, Measuring point, Measuring point group, Last value, and Last measurement. It shows two entries: H2\_45800848 (Office\_2) with a red alarm status and H1\_45801022 (Office\_1) with a green checkmark status. Below the table is a 'WiFi data logger details' section for H2\_45800848, showing battery status (100%), external power supply, and serial number (45800848). The 'Active alarms' section shows a detailed alarm message: 'Alarm: Overshooting (24.9°C > 24.5°C) H2\_45800848 / Office\_2'. The footer contains copyright information (2015 Testo AG), imprint, AGB, third-party libraries, database information (FFM, Germany Test, Europe FFT 01), and revision details (10237, Location: Rst).

- 1 System and status information (see page 43)
- 2 Command bar (see page 43)
- 3 User management (see page 42)
- 4 Menu bar with the main menus:
  - Dashboard (see page 32)
  - Analysis & reports (see page 32)
  - Alarms (see page 34)
  - Configuration (see page 37)
- 5 Display area

## 8 Dashboard

The dashboard is the home page. It provides an overview of the key system data: **Measuring points** and **Active alarms**.

### 8.1 Measuring points

A summary of all measuring points is displayed.

Click on the icon ► to display more information.

### 8.2 Active alarms

A summary of all active alarms and system warnings is displayed. Unread alarms and system warnings are shown in **bold**.

Click on the icon ► to display more information.

On displaying the detailed information, the alarm message/system warning is marked as "read" and the alarm counter is marked down.

## 9 Analysis & reports

### 9.1 Automatic reports

Automatic reports are regularly generated automatically by the system (Generated reports), according to the settings specified by the user (Report settings).

#### Creating an automatic report

1. Click on the **Create an automatic report** button.
2. Enter the data required for creating the automatic report.

The following settings can be defined and edited:

- **Name of the report:** designation of the automatic report.
- **Measuring points for the report:** measuring points that are to be covered in the report. Click on the checkbox in front of the channel designation.
- **How often is the report to be created?:** interval at which the reports are to be generated. Select a report cycle from the drop-down menu.
- **File format:** file format in which the reports are to be generated. Select a file format from the drop-down menu.
- **Data views:** data views in which the data in the reports is to be displayed. Click on the checkbox in front of the data view designation.



- **Also send report via e-mail:** as well as saving reports under **Generated reports**, these can also be sent as e-mails. Click on the checkbox to open the input screen for e-mail addresses.

3. Click on the **Create an automatic report** button.

The first report will be created on the following day.

### **Generated reports**

A summary of the reports already generated is displayed.

Click on the icon ► to display more information.

- Click on the **Download** button to download a report.
- Click on the **Edit this report series** button to display and edit the settings.

### **Report settings**

Automatic reports which have already been created are displayed in a table.

- Click on the **Actions** button and then on **Edit** to display and edit the settings.
- Click on the **Actions** button and then on **Delete** to delete the automatic report.

# 10 Alarms

## 10.1 Alarm list

### Display of alarms

A summary of all triggered alarms and system warnings is displayed. Unread alarms and system warnings are shown in **bold**.

The display can be filtered according to the following characteristics:

- By measuring point group/measuring point: click on the checkbox in front of the measuring point group/measuring point.
- By date/time: click on the start date/end date and select the start date/start time and end date/end time.

### Detailed information on alarms

Click on the icon  to display more information.

On displaying the detailed information, the alarm message/system warning is marked as "read" and the alarm counter is marked down.

Click on the **Mark all as read** button to mark all alerts as "read".

## 10.2 Alarm settings

### Creating and displaying alarm settings

- Click on the **+ New alarm setting** button to create a new alarm setting.

Existing alarm settings are displayed below the button.

- Click on the title of an alarm setting to display it.

### Configuring and editing a displayed alarm setting

The following settings can be defined and edited:

- **Title:** designation of the alarm setting (required field).
- **Measuring points:** Measuring point group/measuring point which is to be monitored. Click on the checkbox in front of the measuring point group/measuring point.
- **Alarm limit value 1 and 2:** Different limit value ranges which can be defined for different periods.
- **Upper limit, lower limit:** Are values which are to be monitored.
- **Alarm delay:** Minimum duration of a limit value violation before an alarm is triggered.



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The time intervals between measurements (measurement rate should be smaller than the alarm delay (e.g. measurement rate = 5 minutes, alarm delay = 15 minutes)).

---

- **Timed control:** Define individual alarm periods for which the alarm limit values 1 and 2, or no alarm at all, apply. To define the alarm value 1 and 2, double-click on a time point in the table or pull open the desired time period with the mouse. In periods in which the table is left empty, you receive no alarm.



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If you have not defined alarm periods, the alarm limits will be active 24 hours a day.

If alarm periods have been defined, the limit value alarms are active only in the marked period.

---

- **Channel alarms:** alarms in the event of a defective sensor.
- **E-mail recipient:** addressees who are informed when an alarm occurs. Click on the checkbox in front of the recipient or enter the name and e-mail address of other recipients and click on the **+ Add** button.
- **SMS recipient:** addressees who are informed when an alarm occurs. Click on the checkbox in front of the recipient or enter the name and mobile phone number of other recipients and click on the **+ Add** button.
- **Save:** click on the button to save the settings.
- **Delete:** click on the button to delete the alarm setting.

## 10.4 System warnings

### Creating and displaying system warnings

- Click on the **+ New system warning** button to create a new system warning.

Existing system warnings are displayed below the button.

- Click on the title of a system warning to display it.

### Configuring and editing a displayed system warning

The following settings can be defined and edited:

- **Title:** designation of the system warning (required field).
- **Battery almost discharged:** monitor the WiFi data logger for discharged battery.
- **Power supply interrupted:** monitor the external power supply of the WiFi data logger for interruptions.

- **WiFi data logger is not responding:** monitor the WiFi data logger for data transmission failure. Click on the **Activate** button and configure the monitoring cycle using the slide control.



---

**Note**

The set time should be greater than the WiFi data logger's communication cycle.

---

- **WiFi data logger:** measuring point group/measuring point which is to be monitored. Click on the checkbox in front of the measuring point group/measuring point.
- **E-mail recipient:** addressees who are informed when an alarm occurs. Click on the checkbox in front of the recipient or enter the name and e-mail address of other recipients and click on the **+ Add** button.
- **SMS recipient:** addressees who are informed when an alarm occurs. Click on the checkbox in front of the recipient or enter the name and mobile phone number of other recipients and click on the **+ Add** button.
- **Save:** click on the button to save the settings.
- **Delete:** click on the button to delete the system warning.

# 11 Configuration

## 11.1 Users

Users can be created and managed.

### Standard users

By default, two users are created in the system:

- Account Owner (name can be changed), with Administrator user role (role cannot be changed).
- Testo Support (name can be changed), with Testo User Support user role (role cannot be changed).

### Creating and editing new users

Other users with different User roles (see page 38) can be created and edited.

- Click on the **Add a new user** button to create a new user.

Existing users are displayed in a list.

- Click on the name of a user to display the settings.
- Click on the **Edit** button to change the settings.

The following settings can be defined and edited:

- **Title**: title of the user.
- **First name**: first name of the user (required field).
- **Second name**: second name of the user.
- **Surname**: surname of the user (required field).
- **Password** and **Repeat password**: user password. The user password, can be changed by the user at a later stage.
- **User role**: defines the user permissions within the system.
- **E-mail address & login**: e-mail address of the user. The e-mail address is also the login name. The e-mail address is also used for system notifications (alarms, system warnings).
- **Change e-mail address & login** (field is only available when editing the user account of the account holder): Enter a new e-mail address. Entering a new e-mail address also changes the login name.
- **Mobile number**: telephone number of the user, this is used for system notifications (alarms and system warnings).
- **Active from**: date from which the user is active.
- **Active to**: date up to which the user is active.
- **Details**: text field for entering other user-specific information.
- **Save**: click on the button to save the settings.

## 11.2 User roles

A description of the available user roles can be displayed.

- Click on the title of a user role to display a description of it.

Users have different permissions depending on their allocated user role:

| Permissions                                                                                  | Administrator | Analyst | Auditor | Operator |
|----------------------------------------------------------------------------------------------|---------------|---------|---------|----------|
| Display created users                                                                        | x             | x       | x       | x        |
| Create, edit and delete users                                                                | x             | -       | -       | -        |
| Display Account ID                                                                           | x             | -       | -       | x        |
| Login WiFi data loggers                                                                      | x             | -       | -       | x        |
| Configure and deactivate WiFi data loggers                                                   | x             | -       | -       | x        |
| Create, edit and delete areas                                                                | x             | -       | -       | x        |
| Display, create, edit and delete alarm settings and system warnings                          | x             | -       | -       | x        |
| Read and analyze readings                                                                    | x             | x       | x       | x        |
| Display details about alarms and system warnings (= mark alarms and system warnings as read) | x             | x       | x       | x        |
| Create automatic reports                                                                     | x             | -       | -       | x        |

x = available, - = not available

## 11.3 Account ID

The Account ID is the unique address of your user account in the Testo Cloud. This is needed to configure the WiFi data loggers in order to ensure that they send your data to the correct user account.

## 11.4 Measuring point groups

Measuring points can be organized into measuring point groups.

Assigning measuring points to a measuring point group (e.g. Room 1, Room 2, etc.) makes the administration of multiple measuring points easier.

See also Areas, page 40.

### Creating and editing a measuring point group

- Click on the **New measuring point group** button to create a new measuring point group.

Measuring point groups already created are displayed in a list.

- Click on the **Actions** button and then on **Edit** to display and edit the settings.

The following settings can be defined and edited:

- **Title:** designation of the measuring point group (required field).
- **Description:** description of the measuring point group.
- **Area:** area that the measuring point group is to be assigned to.
- **Measuring points:** available measuring points and those assigned to the measuring point group are displayed. Click on the icon  to assign a measuring point to the group. Click on the icon  to delete a measuring point from the group.
- **Save:** click on the button to save the settings.
- **Delete:** click on the button to delete the measuring point group.

### Deleting a measuring point group

- Click on the **Actions** button and then on **Delete** to delete the measuring point group.

## 11.5Areas

Measuring point groups can be organized into areas.

See also Measuring point groups, page 39.

### Creating and editing an area

- Click on the **New area** button to create a new area.  
Areas already created are displayed in a list.
- Click on the **Actions** button and then on **Edit** to display and edit the settings.

The following settings can be defined and edited:

- **Display name:** designation of the area (required field).
- **Description:** description of the area.
- **Save:** click on the button to save the settings.
- **Delete:** click on the button to delete the area.

### Deleting an area

- Click on the **Actions** button and then on **Delete** to delete the area.

## 11.6WiFi data loggers

A summary of all WiFi data loggers logged on is displayed.

- Click on the **Details** button to display more information.
- Click on the **Deactivate** or **Activate** button to deactivate or activate WiFi data loggers.

### Configuring a WiFi data logger

- Click on the **Configure** button to change the configuration.

The following settings can be defined and edited:

- **Name of the WiFi data logger:** designation of the WiFi data logger (required field). Condition at delivery: **Model\_Serial number**
- **Description:** description of the WiFi data logger.
- **Select battery type:** set the battery type used. For the battery capacity to be displayed correctly, the correct battery type must be selected.
- **Display:** switch the display of the WiFi data logger on or off.
- **Name of the measuring point:** designation of the measuring point (required field).
- **Measuring cycle:** interval at which readings are obtained. Set the measuring cycle using the slide control.



- **Day communication cycle** and **Night communication cycle**: interval at which readings are transmitted to the Testo Cloud. Select the start time for the day communication cycle and the night communication cycle. Set the communication cycle using the slide control.
- **Channel name**: designation of the measurement channel (required field). Condition at delivery: **Model\_Serial number\_Channel number**
- **Select unit**: unit in which the readings are displayed.
- **Select sensor type** (only for model T2, T3): sensor type used by the measurement channel.
- **Save**: click on the button to save the settings.
- **Deactivate** or **Activate**: click on the button in order to deactivate or activate measurement channels or WiFi data loggers.
- **Remove**: click on the button in order to log WiFi data loggers off the system.

## 11.7Firmware updates

A list with available firmware updates for the WiFi data loggers is displayed. Firmware updates can be installed on the data loggers via WiFi.

- Click on the **Activate** button to install a firmware update.

# 12 User management

The user management provides information and settings options for the user account.

- Click on the icon  to open the **User menu**.

## 12.1 User settings

User-specific settings can be made.

- **Language:** select the language of the user interface.
- **Time zone:** select the time zone for the date and time display.
- **Save:** click on the button to save the settings.

## 12.2 Account information

Information about your Saveris 2 account is displayed.

## 12.3 Change password

The user password can be changed.

**New password** and **New password (repeat):** enter new password in both text fields.

- **Save:** click on the button to save the settings.



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### Note

It is not possible to change the user name (e-mail address).

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## 12.4 Logoff

The user is logged off the system.

- **Logoff:** click on the text to log off.

# 13 Command bar

## 13.1 Open Quick Start Guide

The Quick Start Guide can help you with logging in WiFi data loggers.

- Click on the icon  to open the **Quick Start Guide**.

## 13.2 Open Online Help

The Online Help (this document) provides support for issues related to the product components.

- Click on the icon  to open the **Online Help**.

## 13.3 Open system messages

The system messages contain important information relating to the product.

- Click on the icon  to open the **System messages**. The number of unread system messages is displayed above the icon.

A summary of all system messages is displayed. Unread system messages are shown in **bold**.

- Click on the title of a system message to display more information.

On displaying the detailed information, the system message is marked as "read" and the message counter is marked down.

# 14 System and status information

## 14.1 Display system status

Displays the alarm status.



: no alarms active



: alarms active, number of unread alarms is displayed

- Click on the icon to open the **Alarm list**.

# 15 Frequently Asked Questions

## **Can the WiFi data logger be connected to the PC using any USB cable?**

We recommend that you use the USB cable supplied with the WiFi data logger to guarantee stable data transmission. Longer USB cables are suitable for the power supply only.

## **Can the WiFi data logger also be used in networks with WPA2 Enterprise encryption?**

Second-generation Saveris 2 loggers\* can be used in networks with the following WPA2 Enterprise encryption methods.

EAP-TLS, EAP-TTLS-TLS, EAP-TTLS-MSCHAPv2, EAP-TTLS-PSK,  
EAP-PEAP0-TLS, EAP-PAP0-  
MSCHAPv2, EAP-PEAP0-PSK, EAP-PEAP1-TLS, EAP-PEAP1-  
MSCHAPv2, EAP-PEAP1-PSK

To integrate the loggers into the WPA2 Enterprise network, proceed as follows:

1. Open the .PDF file stored on the logger and generate a corresponding .XML file by selecting the programming options step by step.
2. Copy your company-specific WPA2 Enterprise certificates and the generated .XML file to the logger's mass storage via USB using drag & drop.
3. Please pay special attention to the correct spelling and to the suffixes of certificate names.

### **ca.pem, client.pem, private.key**

Check whether the certificate is available in a PEM or BASE64 format. To do so, open the certificate using a text editor and check that you can see the string "-----BEGIN CERTIFICATE-----". If you cannot see this string, the IT department or the user must explicitly export the certificate from the Radius server using BASE64, or convert it using openssl. There must be one certificate only, not a bundle, inside the file.

4. Please note that the configuration of the WiFi data logger will only be fully transferred once the USB connector has been removed.

\* Item number: 0572 2031, 0572 2032, 0572 2033, 0572 2034, 0572 2035

## **The XML configuration file is not being applied by the WiFi data logger, what can I do?**

Depending on the operating system, there may be difficulties with the data transfer if the configuration file name has been changed. Leave the default file name.

## **The WiFi data logger's wireless connection to the access point was interrupted, what can I do?**

- Press the control key on the WiFi data logger to start searching for a WLAN connection manually.
- Change the alignment or position of the WiFi data logger or the access point (WLAN router).

### **The WiFi data logger is displaying the error code E03, E04, E05 or E09, what can I do?**

An error has occurred in the WiFi data logger. The error will automatically be corrected by the firmware of the WiFi data logger. After a few seconds the error code should no longer be displayed, you do not need to do anything.

### **The WiFi data logger is displaying the error code E12, what can I do?**

The configuration file **WifiConfig.xml** indicates an error. Use the **Quick Start Guide** to create a new configuration file and save this onto the WiFi data logger.

### **The WiFi data logger is displaying error code E20, what can I do?**

A WPA2 Enterprise EAP connection needs to be configured, but no CA certificate could be found. A CA certificate is essential.

Save the CA certificate in PEM format under the name “ca.pem” together with the XML file or upload it in the web config.

### **The WiFi data logger is displaying error code E21, what can I do?**

Incorrect format of the ca.pem certificate. Check whether the ca.pem certificate is available in a PEM or BASE64 format. To do so, open the certificate using a text editor and check that you can see the string “-----BEGIN CERTIFICATE-----”. If you cannot see this string, the IT department or the user must explicitly export the certificate from the Radius server using BASE64, or convert it using openssl. There must be one certificate only, not a bundle, inside the file.

### **The WiFi data logger is displaying error code E22, what can I do?**

A WPA2 Enterprise EAP-TLS connection needs to be configured, but no user certificate could be found. Save the user certificate in PEM format under the name “client.pem” together with the XML file or upload it in the web config.

### **The WiFi data logger is displaying error code E23, what can I do?**

Incorrect format of the client.pem user certificate. Check whether the client.pem user certificate is available in a PEM or BASE64 format. To do so, open the certificate using a text editor and check that you can see the string “-----BEGIN CERTIFICATE-----”. If you cannot see this string, the IT department or the user must explicitly export the certificate from the Radius server using BASE64, or convert it using openssl. There must be one certificate only, not a bundle, inside the file.



### **Older generation Saveris2 logger, prior to 2016 (see type plate):**

The most common reason for this error is low battery. Insert new batteries into the WiFi data logger.

If this does not solve the problem: Reset the WiFi data logger to its factory settings. To do this, press and hold down the control key for > 20 s until the display goes blank.

### **The WiFi data logger is displaying error code E24, what can I do?**

A WPA2 Enterprise EAP-TLS connection needs to be configured, but no private key could be found. Save the private key in PEM format under the name "private.key" together with the XML file or upload it in the web config.

### **The WiFi data logger is displaying error code E25, what can I do?**

Incorrect format of the private.key certificate. Check whether private.key is available in a PEM or BASE64 format. To do so, open the certificate using a text editor and check that you can see the string "-----BEGIN CERTIFICATE-----". If you cannot see this string, the IT department or the user must explicitly export the certificate from the Radius server using BASE64, or convert it using openssl. There must be one certificate only, not a bundle, inside the file.

### **The WiFi data logger is displaying the error code E26, what can I do?**

There are 3 possible reasons for this error:

- 1 The access point (WLAN router) is outside the wireless range or is switched off. Check whether the access point is available. If necessary, change the location of the WiFi data logger.
- 2 The network name (SSID) stored in the WiFi data logger is incorrect. Check the network name of the WLAN network. Use the **Quick Start Guide** to create a new configuration file with the correct network name and save this onto the WiFi data logger.
- 3 The access point of the WLAN network does not use one of the following encryption methods: WEP, WPA (TKIP), WPA2 (AES, CCMP). Configure the access point so that one of the supported encryption methods is used.

### **The WiFi data logger is displaying the error code E32, what can I do?**

The WiFi data logger has not obtained an IP address. There are 2 possible reasons for this error:

- 1 The network password is incorrect. Check the password of the WLAN network. Use the **Quick Start Guide** to create a new configuration file with the correct password and save this onto the WiFi data logger.
- 2 The access point (WLAN router) has a MAC filter or does not permit the integration of new devices. Check the settings for the access point.

### **The WiFi data logger is displaying the error code E35, what can I do?**

The WiFi data logger has not received any reply to its test ping from the access point (WLAN router). Make sure that a ping to the gateway is allowed within the access point configuration.

### **The WiFi data logger is displaying error code E36, what can I do?**

The DNS could not be resolved:

- 1 The access point (WLAN router) has no connection to the internet. Check the access point's internet connection.  
or

- 2 The routing within the network infrastructure is not working. Check whether too many terminal devices are logged into the access point.

**The WiFi data logger is displaying the error code E41, what can I do?**

The WiFi data logger cannot obtain any current time from a time server (pool.ntp.org).

- 1 The access point (WLAN router) has no connection to the internet. Check the access point's internet connection.
- 2 The NTP port (123/UDP) of the access point (WLAN router) is not open. Check whether the NTP port (123/UDP) is opened.

**The WiFi data logger is displaying the error code E51, what can I do?**

The WiFi data logger was not able to connect to the Testo Cloud.

- 1 If the WiFi data logger has already been connected to the Testo Cloud and this connection is suddenly no longer possible: The Testo Cloud servers are not currently accessible. The servers will be monitored and should be accessible again within a few hours.
- 2 If the WiFi data logger has not yet been connected to the Testo Cloud: The TCP ports (1883 or 8883) of the access point (WLAN router) are not open. Check whether the TCP ports (1883 or 8883) are open in both directions.

**The WiFi data logger is displaying error code E52, what can I do?**

The data logger could not log into the Cloud because it is already logged into another account. Please log the data logger out of the existing account first.

**The WiFi data logger is displaying the error code E63, what can I do?**

The WiFi data logger could not send any data to the Testo Cloud.

- 1 The internet connection was interrupted during the transmission. Check whether there is a stable connection from the WiFi data logger to the access point (WLAN router). Check the access point's internet connection. The data will be transferred during the next communication cycle. Alternatively: Initiate data transmission manually by pressing the control key on the WiFi data logger.
- 2 The Testo Cloud server was not able to process the request for data storage. The servers will be monitored and should be accessible again within a few hours.

**The WiFi data logger is displaying the error code E75, what can I do?**

A firmware update for the WiFi data logger failed.

The internet connection was interrupted during the transmission or the data was not received intact by the WiFi data logger for other reasons. Check whether there is a stable connection from the WiFi data logger to the access point (WLAN router). Check the access point's internet connection. The data will be transferred

during the next communication cycle. Alternatively: Initiate data transmission manually by pressing the control key on the WiFi data logger.

**The WiFi data logger is displaying the warning message Err AccountID, what can I do?**

The AccountID contained in the configuration file is not valid.

Use the **Quick Start Guide** to create a new configuration file and save this onto the WiFi data logger.

**The WiFi data logger is displaying the warning message no AccountID, what can I do?**

There is no AccountID in the configuration file.

Use the **Quick Start Guide** to create a new configuration file and save this onto the WiFi data logger.

**The WiFi data logger is displaying the warning message no License, what can I do?**

The WiFi data logger cannot be logged on because the number of WiFi data loggers permitted to log on has been exceeded or your testo Saveris 2 license has expired.

Log off another WiFi data logger, extend or renew your testo Saveris 2 license.

**The WiFi data logger is displaying the warning message not Active, what can I do?**

The WiFi data logger has been deactivated. It is not storing, and therefore not sending, any measurement data to the Testo Cloud.

Activate the WiFi data logger (under **Configuration --> WiFi data logger**) when the WiFi data logger needs to store and send measurement data again.



# 16 Change history

Information about changes to the testo Saveris 2 Cloud:

| Revision | Release date | Improvements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10351    | 2015-03-26   | <ul style="list-style-type: none"><li>• Automatic reports can now be created</li><li>• Vertical help lines in the PDF report were optimized</li><li>• SMS alarms can now be sent in Russian, Japanese, Chinese and Turkish.</li><li>• New users will with immediate effect be created as standard in the language of the account owner</li><li>• Measurement values were sometimes shown in the report with two decimal places, although the data logger only allows one decimal place maximum. This has been adapted in the reports</li><li>• Several design errors in the web presentation have been rectified.</li><li>• Deleting an alarm setting for individual channels/measurement locations from a T3 and T2 no longer deletes both channels.</li><li>• Internal errors on the web application are now presented in a uniform way.</li><li>• Errors with several users with different languages have been rectified.</li><li>• Only the most current Firmware version is shown per logger type, including the status</li><li>• Periods of unrestricted length can now be selected in graph and reports, independently of the selected measurement rate</li><li>• Settings for day/night communication rate are now checked for plausibility</li><li>• An error in the representation of units in the CSV report has been rectified</li><li>• The user settings for the account owner have been corrected.</li><li>• The time selection in the analysis area has been improved with regard to the use of the Japanese language and the use of Internet Explorer 8</li></ul> |

| Revision | Release date | Improvements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |              | <ul style="list-style-type: none"> <li>• The switchover of a T2 channel from temperature to door contact has been improved</li> <li>• The texts for e-mail and SMS alarms have been revised</li> <li>• The stability of communication between the probes and the Cloud has been improved</li> <li>• The special symbols "" "" and spaces can now be used for naming alarms</li> <li>• The dew point and absolute humidity channels can be deactivated</li> <li>• The input of mobile phone numbers for SMS alarms is now presented more clearly</li> <li>• The presentation of all texts in the web presentation is now uniform</li> <li>• The presentation of the system warning settings "Battery almost discharged" and "Power supply interrupted" have been adapted</li> <li>• The presentation of the data in the data analysis and the reports have been aligned</li> <li>• The presentation of deregistered WiFi data loggers on the dashboard has been completed</li> <li>• The number of time zones has been fundamentally revised</li> <li>• The number of the max. available SMS alarms was stated per month, not per year. This error has been rectified</li> <li>• The status of the still active alarms is better presented on the dashboard</li> <li>• The error that in some cases the data was not fully shown in the table view, has been rectified</li> <li>• The error that in individual cases not all alarms were shown in the alarm list, has been rectified</li> <li>• The error that a WiFi data logger retained its alarm setting after being deregistered and reregistered, has been rectified</li> <li>• The error that a WiFi data logger</li> </ul> |

| Revision | Release date | Improvements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |              | <p>sometimes still had alarm settings stored after a hardware reset, has been rectified</p> <ul style="list-style-type: none"> <li>• The error that the set user language was not taken into account in the setting of the communication rate, has been rectified</li> <li>• The error that the change of the user role was not always taken over, has been rectified</li> <li>• The error that during registration the previously selected country can no longer be changed after selecting the language, has been rectified</li> <li>• The error that the e-mail address for a deleted user can no longer be used, has been rectified</li> <li>• The error that license information was sometimes displayed incorrectly in the Quick Start Guide, has been rectified</li> <li>• The error that for the dew point and absolute humidity channels the alarm did not function, has been rectified</li> <li>• The error that when measuring in °F the e-mail and SMS alarms were always shown in °C, has been rectified</li> <li>• The error that the measurement locations could not be removed from existing alarm settings, has been rectified</li> <li>• The category "User groups" has been removed</li> <li>• The colour design on the web presentation is now uniform</li> <li>• With immediate effect, the dash board displays only active alarms</li> <li>• Browser compatibility problems in the presentation of the dashboard have been corrected</li> <li>• In a CSV report, tables and alarms cannot be integrated simultaneously, although this combination was selectable in the software interface. This error has been rectified</li> <li>• Decimal points and commas are supported for alarm limit value input</li> <li>• Limit values can be entered in °F or</li> </ul> |

| Revision | Release date | Improvements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |              | <p>°C in alarm settings</p> <ul style="list-style-type: none"> <li>• A maintenance page is shown when maintenance work on the Cloud is being carried out</li> <li>• When changes to the selected analysis area were carried out, individual errors in the presentation occurred. This has been corrected</li> <li>• For months with fewer than 31 days, the full 31 days could still be selected in the time selection. This error has been rectified</li> <li>• Only a limited number of characters could be used for descriptions. The length of the fields has been adjusted accordingly</li> <li>• Suspended alarms are now identified as such</li> <li>• Alarm limit values outside the physical limits of the testo Saveris 2 probes can no longer be entered (e.g. 105 %RH)</li> </ul> |
| 10955    | 2015-04-07   | <ul style="list-style-type: none"> <li>• The quick start guide is adapted to the new license model</li> <li>• Some bugs in the graphic function are resolved</li> <li>• Measurement point names are shown instead of channel names above the graphic</li> <li>• The error that the alarm symbol shows "disabled" has been rectified</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                |



