



testo 176 · Data loggers

Instruction manual



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2 Safety and the environment

2.1. About this document

Use

- > Please read this documentation through carefully and familiarize yourself with the product before putting it to use. Pay particular attention to the safety instructions and warning advice in order to prevent injuries and damage to the products.
- > Keep this document to hand so that you can refer to it when necessary.
- > Hand this documentation on to any subsequent users of the product.

Symbols and writing standards

Representation	Explanation
	Warning advice, risk level according to the signal word: Warning! Serious physical injury may occur. Caution! Slight physical injury or damage to the equipment may occur. > Implement the specified precautionary measures.
i	Note: Basic or further information.
1. ...	Action: more steps, the sequence must be followed.
2. ...	
> ...	Action: a step or an optional step.
- ...	Result of an action.
Menu	Elements of the instrument, the instrument display or the program interface.
[OK]	Control keys of the instrument or buttons of the program interface.
... ...	Functions/paths within a menu.
“...”	Example entries

2.2. Ensure safety

- > Only operate the product properly, for its intended purpose and within the parameters specified in the technical data. Do not use any force.
- > Never use the instrument to measure on or near live parts.
- > Before each measurement check that the connections are correctly closed with blanking plugs or that appropriate sensors have been correctly plugged in. The protection class in the technical data specified for the corresponding instrument may otherwise not be reached.
- > testo 176 T3 testo 176 T4: The maximum permissible difference in potential between the sensor inputs is 50 V. Take this into account when using surface sensors with non-isolated thermocouple.
- > After the final measurement, allow probes and probe shafts to cool down sufficiently in order to avoid burns from the hot sensor tip or the probe shaft.
- > Temperatures given on probes/sensors relate only to the measuring range of the sensors. Do not expose handles and feed lines to any temperatures in excess of 70 °C unless they are expressly permitted for higher temperatures.
- > Carry out only the maintenance and repair work on this instrument that is described in the documentation. Follow the prescribed steps exactly. Use only original spare parts from Testo.
- > After the final measurement, allow probes and probe shafts to cool down sufficiently in order to avoid burns from the hot sensor tip or the probe shaft.
- > Do not use the device in a polluted environment (heavily dusty, oil, foreign matter, volatile chemicals).

2.3. Protecting the environment

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

3 Specifications

3.1. Use

The data loggers testo 176 serves the purpose of saving and reading out individual readings and measurement series.

Readings are measured and saved with testo 176 and transferred to the PC via USB-cable or SD-card, where they can be read out and evaluated with the help of the testo Comfort Software. With the software the data loggers can also be individually programmed.

Typical applications

testo 176 T1 is optimally suitable for temperature measurements under extreme conditions, like e.g. on ships or in power plants, because its metal housing provides excellent protection against mechanical influences.

Due to the possibility of connecting external, high-precision Pt100 sensors the testo 176 T2 is optimally suitable for temperature measurements, e.g. in food applications or in the laboratory.

With its external sensor connections (thermocouples type T, type K and type J) and its robust metal housing the testo 176 T3 is able to perform parallel temperature measurements on up to four measuring locations under extreme conditions.

The external sensor connections (thermocouples type T, type K and type J) make the testo 176 T4 an excellent choice for different applications, such as e.g. simultaneous feed and return temperature measurement in underfloor heating at up to four measuring locations.

The testo 176 H1 is optimally suitable for parallel temperature and humidity monitoring, e.g. in warehouses.

With its external sensor connections and its robust metal housing the testo 176 H2 is able to execute temperature and humidity measurements in parallel mode under extreme conditions.

The testo 176 P1 is able to measure pressure, temperature and humidity at the same time and is thus optimally suitable for the documentation of ambient conditions, e.g. in laboratories.

3.2. Technical data

testo 176 T1 (0572 1761)

Feature	Values
Measurement parameter	Temperature (°C/°F)
Sensor type	Pt100 class A internal
Measurement range	-35 to +70 °C
Instrument accuracy	± 0.4 °C (-35 bis +70 °C) ± 1 digit
Resolution	0.01 °C
Operating temperature	-35 ... +70 °C
Storage temperature	-40 ... +85 °C
Battery type	1x lithium (TL-5903)
Life	8 years (15 min. measuring cycle, +25 °C)
Degree of protection	IP68 1m
Dimensions in mm (LxWxH)	103 x 63 x 33 mm
Weight	approx. 410 g
Measuring cycle	1s – 24h (freely selectable, for online measurement 2s – 24h))
Interface	Mini-USB, SD card slot
Memory capacity	2 million readings
Standards	2014/30/EC, EN 12830 ⁴

⁴ Please note that, according to EN 12830, this instrument must be regularly checked and calibrated as specified in EN 13486 (recommendation: every year) Contact us for more information.

3 Specifications

testo 176 T2 (0572 1762)

Feature	Values
Measurement parameter	Temperature (°C/°F)
Sensor type	2 x Pt100 class A external
Measurement range	-100 to +400 °C
Instrument accuracy	± 0.2 °C (-100 bis +200 °C) ± 1 digit ± 0.3 °C (+200.1 bis +400 °C) ± 1 digit
Resolution	0.01 °C
Operating temperature	-35 ... +70 °C
Storage temperature	-40 ... +85 °C
Battery type	1x lithium (TL-5903)
Life	8 years (15 min. measuring cycle, +25 °C)
Degree of protection	IP65
Dimensions in mm (LxWxH)	103 x 63 x 33 mm
Weight	approx. 220 g
Measuring cycle	1s – 24h (freely selectable, for online measurement 2s – 24h))
Interface	Mini-USB, SD card slot
Memory capacity	2 million readings
Standards	2014/30/EC, EN 12830 ⁵

⁵ Please note that, according to EN 12830, this instrument must be regularly checked and calibrated as specified in EN 13486 (recommendation: every year) Contact us for more information.

testo 176 T3 (0572 1763)

Feature	Values
Measurement parameter	Temperature (°C/°F)
Sensor type	4 thermocouples (type T, K, J) external
Measurement range	-100 to +750 °C (type J) -200 to +1000 °C (type K) -200 to +400 °C (type T)
Instrument accuracy	± 1 % of the measurement value (-200 to -100.1 °C) ± 1 digit ± 0.3 °C (-100 bis +70 °C) ± 1 digit ± 0.5 % of the measurement value (+70.1 to +1000 °C) ± 1 digit
Resolution	0.1 °C
Operating temperature	-20 ... +70 °C
Storage temperature	-40 ... +85 °C
Battery type	1x lithium (TL-5903)
Life	8 years (15 min. measuring cycle, +25 °C)
Degree of protection	IP65
Dimensions in mm (LxWxH)	103 x 63 x 33 mm
Weight	approx. 430 g
Measuring cycle	1s – 24h (freely selectable, for online measurement 2s – 24h))
Interface	Mini-USB, SD card slot
Memory capacity	2 million readings
EC Directive	2014/30/EC

3 Specifications

testo 176 T4 (0572 1764)

Feature	Values
Measurement parameter	Temperature (°C/°F)
Sensor type	4 thermocouples (type T, K, J) external
Measurement range	-100 to +750 °C (type J) -200 to +1000 °C (type K) -200 to +400 °C (type T)
Instrument accuracy	± 1 % of the measurement value (-200 to -100.1 °C) ± 1 digit ± 0.3 °C (-100 bis +70 °C) ± 1 digit ± 0.5 % of the measurement value (+70.1 to +1000 °C) ± 1 digit
Resolution	0.1 °C
Operating temperature	-20 ... +70 °C
Storage temperature	-40 ... +85 °C
Battery type	1x lithium (TL-5903)
Life	8 years (15 min. measuring cycle, +25 °C)
Degree of protection	IP65
Dimensions in mm (LxWxH)	103 x 63 x 33 mm
Weight	approx. 230 g
Measuring cycle	1s – 24h (freely selectable, for online measurement 2s – 24h))
Interface	Mini-USB, SD card slot
Memory capacity	2 million readings
EC Directive	2014/30/EC

testo 176 H1 (0572 1765)

Feature	Values
Measurement parameter	Temperature (°C/°F) and humidity (%rF, %RH, °Ctd, g/m³, WB)
Sensor type	2 NTC temperature sensors external or 2 capacitive humidity sensors external
Measurement range	0 to 100 %rF (non-dewling) -20 to +70 °C -40 to +70 °Ctd
Instrument accuracy	± 0.2 °C (-20 to +70° C) ± 1 digit ± 0.4 °C (rem. measurement range) ± 1 digit The accuracy for humidity measurements results from the accuracy of the connected sensor.
Resolution	0.1 °C, 0.1 %rF
Operating temperature	-20 ... +70 °C
Storage temperature	-40 ... +85 °C
Battery type	1x lithium (TL-5903)
Life	8 years (15 min. measuring cycle, +25 °C)
Degree of protection	IP65
Dimensions in mm (LxWxH)	103 x 63 x 33 mm
Weight	approx. 220 g
Measuring cycle	1s – 24h (freely selectable, for online measurement 2s – 24h))
Interface	Mini-USB, SD card slot
Memory capacity	2 million readings
EC Directive	2014/30/EC

3 Specifications

testo 176 H2 (0572 1766)

Feature	Values
Measurement parameter	Temperature (°C/°F) and humidity (%rF, %RH, °Ctd, g/m³, WB)
Sensor type	2 capacitive humidity sensors external
Measurement range	0 to 100 %rF (non-dewling) -20 to +70°C -40 to +70°Ctd
Instrument accuracy	± 0.2°C (-20 bis +70°C) ± 1 digit ± 0.4°C (remaining measurement range) ± 1 digit The accuracy for humidity measurements results from the accuracy of the connected sensor.
Resolution	0.1 °C, 0.1 %rF
Operating temperature	-20 ... +70°C
Storage temperature	-40 ... +85°C
Battery type	1x lithium (TL-5903)
Service life	8 years (15 min. measuring cycle, +25 °C)
Degree of protection	IP65
Dimensions in mm (LxWxH)	103 x 63 x 33 mm
Weight	approx. 430 g
Measuring cycle	1s – 24h (freely selectable, for online measurement 2s – 24h))
Interface	Mini-USB, SD card slot
Memory capacity	2 million readings
EC Directive	2014/30/EC

testo 176 P1 (0572 1767)

Feature	Values
Measurement parameter	Temperature (°C/°F), humidity (%rF, %RH, °Ctd, g/m³), barometric pressure (mbar, hPa, psi, inH2O)
Sensor type	2 NTC temperature sensors external or 2 capacitive humidity sensors external 1 absolute pressure sensor internal
Measurement range	600 mbar to 1100 mbar -20 to +70 °C -40 to +70 °Ctd 0 to 100 %rF (non-dewling)
Accuracy	± 0.2 °C (-20 bis +70 °C) ± 1 digit ± 0.4 °C (remaining measurement range) ± 1 digit ± 3 mbar (0 to 50 °C) ± 1 digit The accuracy for humidity measurements results from the accuracy of the connected sensor.
Resolution	0.1 °C / 0.1 %rF / 0.1 mbar
Operating temperature	-20 ... +70 °C
Storage temperature	-40 ... +85 °C
Battery type	1x lithium (TL-5903)
Service life	8 years (15 min. measuring cycle, +25 °C)
Degree of protection	IP54
Dimensions in mm (LxWxH)	103 x 63 x 33 mm
Weight	approx. 230 g
Measuring cycle	1s – 24h (freely selectable, for online measurement 2s – 24h))
Interface	Mini-USB, SD card slot
Memory capacity	2 million readings
EC Directive	2014/30/EC

Battery life

The programming windows of the software provide you with typical guide values for the expected lifetime of the battery. This lifetime is calculated on the basis of the following factors:

- Measuring cycle
- Number of connected sensors

Since the battery life depends on quite a few other factors, the calculated data can only serve as guide values.

The following factors have a negative effect on the battery life:

- longer flashing of the LEDs
- frequent reading out (several times per day) via the SD-card
- extreme fluctuations in operating temperature

The following factors have a positive effect on the battery life:

- display switched off

The battery capacity reading in the display of the data logger is based on the calculated values. However, the data logger is switched off when a critical voltage level has been reached. It may therefore happen that:

- readings are still recorded, even though the battery capacity reading says "empty".
- the measurement program is stopped, even though the battery capacity reading just before indicated a still remaining battery capacity.

In case of an empty battery or a battery change saved readings will not be lost.

4 First steps

4.1. Unlock the data logger



1. Open the lock with the key (1).
2. Remove the lock (2) from the locking pin.
3. Pull the locking pin (3) out of the holes in the wall bracket.
4. Slide the data logger out of the wall bracket (4).

i The data logger is delivered with the battery (type TL-5903) inserted. The display of the data logger shows **rSt**.

4.2. Connecting the data logger to PC

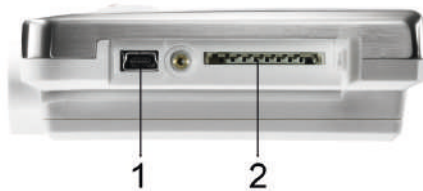
For testo Comfort Software Basic 5:

The software is available in the Internet as a free download requiring registration:

i The instructions for the installation and operation of the software can be found in the testo Comfort Software Basic 5 instruction manual, which can be downloaded together with the software.

For testo Comfort Software Professional und testo Comfort Software CFR:

1. Install the software testo Comfort Software.
2. Connect the USB cable to a free USB port on the PC.
3. Loosen the screw on the right side of the data logger.
4. Open the cover.



5. Plug the USB cable into the Mini USB port (1).
6. Configure the data logger, see separate operating instructions testo Comfort Software.

5 Display and control elements

5.1. Display



The data loggers testo 176 T1, testo 176 T3, testo 176 H2 have no display.

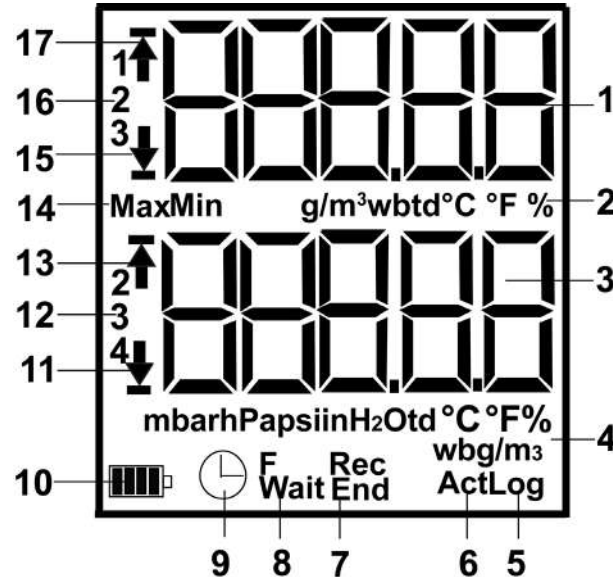
The display function can be switched on/off via the testo Comfort Software.

Depending on the operating status, various information may be shown in the display. A detailed representation of the information that can be called up can be found under Menu overview.



For technical reasons the display speed of liquid crystal displays becomes slower at temperatures below 0 °C (approx. 2 seconds at -10 °C, approx. 6 seconds at -20 °C). This has no influence on the measuring accuracy.

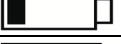
testo 176 T2, testo 176 T4, testo 176 H1, testo 176 P1



- 1 Measurement value channel 1, 2, 3 (depending on number of channels and view)
- 2 Units channel 1, 2, 3 (depending on number of channels and view)
- 3 Measurement value channel 2, 3, 4 (depending on number of channels and view)
- 4 Units channel 2, 3, 4 (depending on number of channels and view)
- 5 Number of saved measurement values with alarm value violation (**Log**)
- 6 Current intermediate measurement value, appears in the display, but is not saved (**Act**)
- 7 End of measuring program (**End**), measuring program is running (**Rec**)
- 8 Waiting for start of measuring program (**Wait**), start criterion Formula programmed (**F**)
9. Start criterion Date/ Time programmed

5 Display and control elements

10 Battery capacity

Icon	Capacity
	> 151 days
	< 150 days
	< 90 days
	< 60 days
	< 30 days > Read out data and change battery (see Replacing the battery).

11 Lower alarm value displayed channel (2, 3, 4):

- Flashes: programmed alarm value is shown
- Lights: programmed alarm values were fallen short of

12 Channel number (2, 3, 4)

13 Upper alarm value displayed channel (2, 3, 4):

- Flashes: programmed alarm value is shown
- Lights: programmed alarm values were exceeded

14 Identification of measurement value:

Max: highest saved measurement value

Min: lowest saved measurement value

15 Lower alarm value displayed channel (1, 2, 3):

- Flashes: programmed alarm value is shown
- Lights: programmed alarm values were fallen short of

16 Channel number (1, 2, 3)

17 Upper alarm value displayed channel (1, 2, 3):

- Flashes: programmed alarm value is shown
- Lights: programmed alarm values were exceeded

5.2. LED

Representation	Explanation
Red LED flashes once every 10 seconds	Remaining battery capacity has dropped below 30 days
Red LED flashes twice every 10 seconds	Remaining battery capacity has dropped below 10 days
Red LED flashes three times every 10 seconds	Battery is empty:
Red LED flashes three times when pressing the button	Limiting value exceeded/fallen short of.
Yellow LED flashes three times	Instrument changes from Wait-mode to Rec-mode.
Yellow LED flashes three times when pressing the button	Instrument is in Rec-mode.
Green and yellow LED flash three times when pressing the button.	Instrument is in End-mode.
Green LED flashes three times when pressing the button	Instrument is in Wait-mode.
Red, yellow and green LEDs flash one after the other	Battery was inserted, capacitor in charge state.

5.3. Key functions

A detailed representation of the screen displays can be found under Menu overview.

- ✓ Instrument in operating status **Wait** and start criterion Button start programmed.
- > Press **[GO]** for approx. 3 seconds to start the measurement program.
- The measurement program starts and **Rec** appears in the display.
- ✓ Instrument is in operating status **Wait**:
- > Press **[GO]**, to toggle between the displays of upper alarm value, lower alarm value, battery lifetime and last measurement value.

The displays appear in the specified sequence.

- ✓ Instrument is in operating status **Rec** or **End**:
- > Press **[GO]**, to toggle between the displays for highest saved measurement value, lowest saved measurement value, upper alarm value, lower alarm value, number of times the upper alarm value has been exceeded, number of times the lower alarm value has been fallen short of, battery lifetime and last measurement value.

The displays appear in the specified sequence.

Show current measurement value

- ✓ The last 10 seconds **[GO]** has not be pressed.
- > Press **[GO]**.
- The current measurement value is determined and appears in the display.
- The display shows **Act**.



If **[GO]** is pressed again within the next 10 seconds, the current measurement value for the next channel will be determined and displayed.

6 Using the product

6.1. Connecting a sensor

Observe the following points when connecting sensors to data logger and measuring points.

- > Ensure correct polarity of the plugs.
- > Press the plugs firmly into the ports to ensure leak tightness. However, do not apply force!
- > Make sure that the plugs are firmly connected to the data logger or that the connections are closed with blanking plugs.
- > Ensure correct positioning of the sensor to avoid disturbing influences affecting the measurement.
- > testo 176 T2, testo 176 T3, testo 176 T4, testo 176 H1, testo 176 H2, testo 176 P1: Make sure that you connect the configured (with the testo Comfort Software) sensors to the individual connections. The numbers of the connections are printed on the housing.

6.2. Programming data logger

In order to adapt the programming of your data logger to your individual requirements, you require the testo Comfort Software Basic 5 software. It is available in the Internet as a free download requiring registration

[Service&Support](#) | [Download Center](#).



The instructions for the installation and operation of the software can be found in the testo Comfort Software Basic 5 instruction manual that is downloaded together with the software.

6.3. Menu overview



The menu overview shows exemplary display representations of the data logger testo 176 T2.

The data loggers testo 176 T1, testo 176 T3, testo 176 H2 have no display.

The display must be switched on to be able to show the corresponding indications. This takes place via the testo Comfort Software.

The indication in the display is updated according to the programmed measurement rate. Only readings from active channels are displayed.

The channels are also activated via the testo Comfort Software.

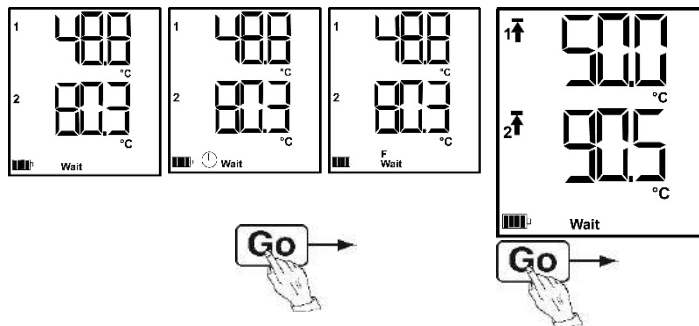
The symbols for upper or lower alarm value light up in operating states Rec and End, if the programmed alarm value has been exceeded or fallen short off.

After 10 seconds without operating a key the display will return to its initial state.

Wait-Mode (Wait): Start criterion is programmed, but not yet fulfilled.

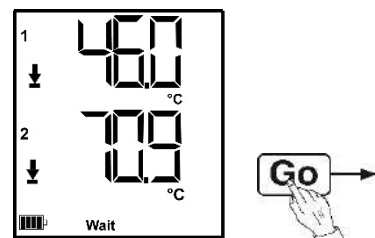
① Last reading⁶

Start criterion key Start criterion Start criterion
start / PC start Date/Time Formula

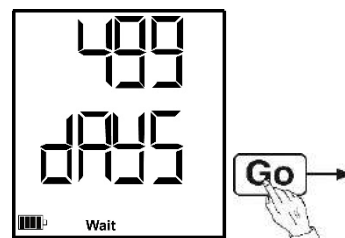


② Upper alarm value

③ Lower alarm value



④ Battery capacity in days



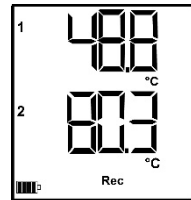
Last measurement value⁶ (see Fig. ① Wait mode)

⁶ Measurement value is not saved

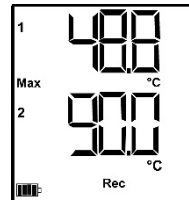
Rec-Mode (Rec): Start criterion was fulfilled, data logger saves readings

End-Mode (End): Measurement program finished (stop criterion reached – memory full or number of readings) depending on programming

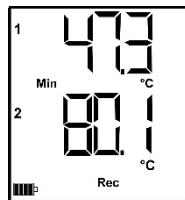
① Last reading



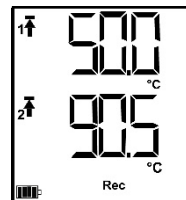
② Highest reading



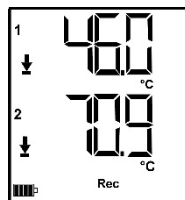
③ Lowest reading



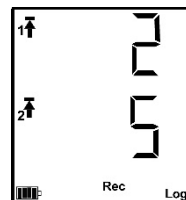
④ Upper alarm value



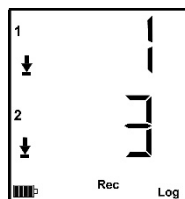
⑤ Lower alarm value



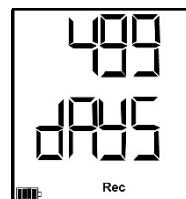
⑥ Number of times the upper alarm value has been exceeded



⑦ Number of times the lower alarm value has been fallen short of



⑧ Battery capacity in days



Last measurement value (see Fig. ①)

6.4. Mounting the wall bracket



The scope of delivery does not include mounting materials (e.g. screws, wall plugs).

- ✓ The data logger has been removed from the wall bracket.
- 1. Position the wall bracket at the desired place.
- 2. Use a pen or something similar to mark the location for the fastening screws.
- 3. Prepare the fastening location in accordance with the fastening material (e.g. drill hole, insert wall plugs).
- 4. Fasten the wall bracket with suitable screws.

6.5. Securing the data logger



- ✓ The wall bracket has been mounted.
- 1. Slide the data logger into the wall bracket (1).
- 2. Push the locking pin (2) through the holes in the wall bracket.
- 3. Fasten the lock (3) on the locking pin.
- 4. Pull off the key (4).

6.6. Reading out data

Via USB cable

- 1. Connect the USB cable to a free USB port on the PC.
- 2. Loosen the screw on the right side of the data logger.
- 3. Open the cover.



4. Plug the USB cable into the Mini USB port (1).
5. Reading out data logger and processing of read out data, see separate operating instructions testo Comfort Software.

Via SD card



If a data logger is to be read out in Rec-mode, the data logger can record measuring data with a maximum measuring cycle of 10 seconds during the read-out process.

Once the read-out process has finished, the data logger can again record measurement data with a measuring cycle of 1 second, depending on the programming.

1. Loosen the screw on the right side of the data logger.
2. Open the cover.



3. Push the SD card into the SD card slot (2).
 - **Sd CArd** appears in the display.
4. Hold **[Go]** depressed for longer than 2 seconds.
 - **COPY** appears in the display.
 - The yellow LED lights during the copying process.
 - The green LED flashes twice and after the copying process the display shows **OUT**.
5. Remove the SD card.
6. Insert the SD card into the SD card slot on the PC.
7. Further processing of read out data, see separate operating instructions testo Comfort Software.

i The data logger needs to be reconfigured. For this purpose the software testo Comfort Software must be installed on the computer and a connection to the data logger must have been set up.

9. Connect the data logger to the PC with a USB cable.
 10. Start testo Comfort Software and set up a connection to the data logger.
 11. Reconfigure the data logger or load the old, saved configuration, see separate operating instructions testo Comfort Software.
- The data logger is once again ready for use.

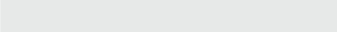
7.2. Cleaning the instrument

CAUTION
Damage to the sensor!
> Ensure that no liquid enters the inside of the housing.
> If the housing of the instrument is dirty, clean it with a damp cloth.
Do not use any aggressive cleaning agents or solvents! Weak household cleaning agents or soap suds can be used.

8 Tips and assistance

8.1. Questions and answers

Question	Possible causes / solution
FULL appears in the display, the red LED flashes twice, out appears in the display.	Insufficient memory capacity on SD card to save the data. > Remove the SD card, free up more memory space and copy data.
Err appears in the display, the red LED flashes twice, out appears in the display.	An error occurred while saving data to the SD card. > Remove the SD card, free up more memory space and copy data.
nO dAtA appears in the display, the red LED flashes twice.	The logger has not yet recorded any data and is in Wait mode. > Remove the SD card and wait until the logger is in Rec mode.
rST appears in the display.	The battery has been inserted. No data are recorded. > Reprogram the data logger via the software.
H Cap appears in the display.	The battery has been inserted after the battery and the auxiliary battery had been fully discharged. The auxiliary battery must be charged. 1. Connect the data logger to the PC with a USB cable. 2. Charge the auxiliary battery approx. 5-10 minutes via the USB-cable. - The display shows rST .
---- appears in the display.	Sensor of data logger defective or an incompatible sensor has been plugged in. > Contact your dealer or the Testo Customer Service.

If you have any questions please contact your local dealer or the Testo Customer Service. You find contact data on the back of this document or in the Internet under 

8.2. Accessories and spare parts

Description	Article no.
Wall bracket (black) with lock	0554 1703
Mini USB cable to connect the data logger testo 176 to the PC	0449 0047
SD card to read out the data logger 176	0554 8803
Battery TL-5903 AA-battery	0515 1760
CD testo Comfort Software Professional	0554 1704
CD testo Comfort Software CFR	0554 1705
ISO temperature calibration certificate, calibration points -18 °C, 0 °C, +40 °C; per channel/instrument	0520 0153
ISO moisture calibration certificate, calibration points 11,3 %rF; 50,0 %rF; 75,3 %rF at +25 °C/+77 °F; per channel/instrument	0520 0076
ISO calibration certificate absolute pressure, 5 calibration points over the measurement range	0520 0025

For further accessories and spare parts, please refer to the product catalogues and brochures or look up under: www.testo.com