

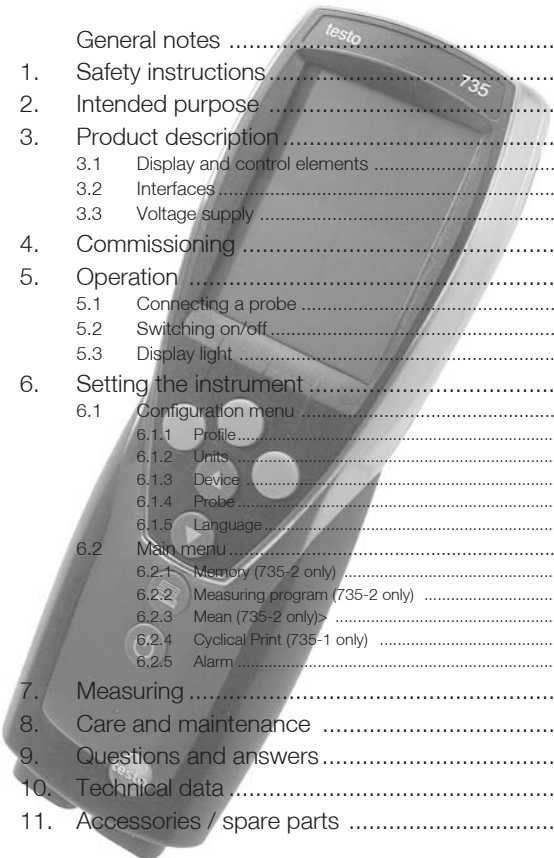


testo 735
Temperature measuring instrument

Bedienungsanleitung
Instruction manual

de
en

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General notes

This chapter provides important advice on using this documentation.

The documentation contains information that must be applied if the product is to be used safely and efficiently.

Please read this documentation through carefully and familiarise yourself with the operation of the product before putting it to use. Keep this document to hand so that you can refer to it when necessary.

Identification

| Representation | Meaning | Comments |
|---|--------------------------|---|
|  | Warning advice: Warning! | Read warning advice carefully and take the precautionary measures indicated! Serious physical injury could occur if you do not take the precautionary measures indicated. |
|  | Warning advice: Caution! | Read warning advice carefully and take the precautionary measures indicated! Slight physical injury or damage to equipment could occur if you do not take the precautionary measures indicated. |
|  | Note | Offers helpful tips and information. |
|  | Objective | Denotes the objective that is to be achieved via the steps described. Where steps are numbered, you must always follow the order given! |
|  | Condition | A condition that must be met if an action is to be carried out as described. |
|  | Step | Carry out steps. Where steps are numbered, you must always follow the order given! |
| Text | Display text | Text appears on the instrument display. |
|  | Control button | Press the button. |
|  | Function button | Press the button. |
| - | Result | Denotes the result of a previous step. |
|  | Cross-reference | Refers to more extensive or detailed information. |

Short form

This document uses a short form for describing operating steps (e.g. calling up a function).

Example: Calling up the “Instrument data” function

Short form: Device → → Inst.data → .

(1) (2) (3) (4)

Steps required:

- 1 Press / to select the **Device** function.
- 2 Confirm selection with .
- 3 Press / to select the **Inst.data** function.
- 4 Confirm selection with .

1. Safety instructions

This chapter gives general rules which must be followed and observed if the product is to be handled safely.

Avoid personal injury/damage to equipment

- › Do not use the measuring instrument and probes to measure on or near live parts.
- › Never store the measuring instrument/measuring cells together with solvents and do not use any desiccants.

Product safety/preserving warranty claims

- › Operate the measuring instrument only within the parameters specified in the Technical data.
- › Always use the measuring instrument properly and for its intended purpose. Do not use force.
- › Do not expose handles and feed lines to temperatures in excess of 70 °C unless they are expressly permitted for higher temperatures. Temperatures given on probes relate only to the measuring range of the sensors.
- › Open the instrument only when this is expressly described in the documentation for maintenance or repair purposes.
Carry out only the maintenance and repair work that is described in the documentation. Follow the prescribed steps when doing so. For safety reasons, use only original spare parts from Testo.

Ensure correct disposal

- › Take faulty rechargeable batteries/spent batteries to the collection points provided for them.
- › Send the product back to Testo at the end of its useful life. We will ensure that it is disposed of in an environmentally friendly manner.

2. Intended purpose

This chapter gives the areas of application for which the product is intended.

Use the product only for those applications for which it was designed. Ask Testo if you are in any doubt.

testo 735 is a compact measuring instrument for measuring temperature.

The product was designed for the following tasks/applications:

- Food industry
- Use as a reference standard with high-precision Pt100 immersion/penetration probes

The product should **not** be used in the following areas:

- Areas at risk of explosion.
- Diagnostic measurements for medical purposes.

3. Product description

This chapter provides an overview of the components of the product and their functions.

3.1 Display and control elements

Overview



- ① Infrared, USB interface
- ② Display (light can be activated)
- ③ Control buttons
- ④ Rear: Battery and radio module compartment, holding magnets



Strong magnets

Damage to other instruments!


- Keep a safe distance from products which could be damaged by magnetism (e.g. monitors, computers, pacemakers, credit cards).

- ⑤ Probe socket(s)






Button functions

| Button | Functions |
|--------|--|
| | Function button (3x): The function depends on the button assignment at the time |
| | Change display of the 1 st reading line In configuration mode: Increase value, select option |
| | Change display of the 2 nd reading line In configuration mode: Decrease value, select option |
| | Print data 735-1 only: If the Cyclical Printing function is activated, the programmed measuring program is started. |
| | Switch instrument on, switch display light on/off; switch instrument off (press and hold) |

Function buttons (Function dependant on profile and setting)

| Button | Functions |
|--|---|
|  | Open (main) menu |
| OK | Enter confirmation |
| ESC | Cancel |
| Hold / ACT | Hold value/display current measurement value |
| Reset | Reset max./min. values to current measurement value |
| Mean | Open menu item "Multi-point mean calculation" |
| Measp | Open menu item "Measuring program" (735-2 only) |
| Start / End | Start/end test series (735-2 only) |
| Save | Save values (735-2 only) |
| Radio | Open menu item "RadioC" |
| MEM | Open menu item "Location" |

Important displays

| Display | Meaning |
|--|---|
|  | Battery capacity (only for operation by battery/rechargeable battery): <ul style="list-style-type: none"> · 4 segments in the battery symbol are lit: Instrument battery is fully charged · No segments in the battery symbol are lit: Instrument battery is almost spent |
|  (flashing) | Print function: Data are sent to the printer |
|   | Measurement channel no.: Channel 1, channel 2. |
|  | If a measurement channel is a radio channel, the radio symbol lights up as well as the measurement channel no. |

3.2 Interfaces

Infrared interface

Measurement data can be sent to a Testo printer via the infrared interface on the head of the instrument.

USB interface

The mains unit (accessory part) can be connected to the head of the instrument via the USB interface to power the instrument.

Instruments with a memory: Measurement/instrument data can be exchanged with a PC via the USB interface.

Probe socket(s)

Plug-in measuring probes can be connected via the probe socket(s) on the base of the instrument. The instrument is a HighPower device, possibly an additional USB-Hub is required!

Radio module (accessory part)

i Radio probes may only be used in countries in which they have been Type Approved (see application information of the radio probe).

Up to three radio probes can be connected via the radio module.

3.3 Voltage supply

Voltage is supplied via three mignon batteries (included in delivery) or rechargeable batteries or through a mains unit (accessory part). It is not possible to charge rechargeable batteries in the instrument.

4. Commissioning

This chapter describes the steps required to commission the product.

- **Removing the protective film on the display:**
 - › Pull the protective film off carefully.
- **Inserting batteries/rechargeable batteries and a radio module (accessory part):**
 - 1 Undo the two screws on the rear of the instrument and lift off the battery compartment cover.
 - 2 Insert batteries/rechargeable batteries (3x mignon) into the battery compartment. Observe the polarity!
 - 3 Push the radio module (accessory part) into the radio module compartment until it engages in place. Note the guide groove.
 - 4 Replace the battery compartment cover, press down and secure by tightening the two screws.

5. Operation

This chapter describes the steps that are executed frequently when using the product.

5.1 Connecting a probe

Plug-in probes

Plug-in probes must be connected before the measuring instrument is switched on so that they are recognised by the instrument.

- › Insert the connector of the probe into the probe socket of the measuring instrument.

Radio probes

i Radio probes may only be used in countries in which they have been Type Approved (see application information of the radio probe).


A radio module (accessory part) is required for the use of radio probes. The radio module must be connected before the measuring instrument is switched on so that it is recognised by the measuring instrument.

Each radio probe has a probe ID (identification number) which must be set in configuration mode.

↪ See chapter PROBE, p. 43.

5.2 Switching on/off

> Switching the instrument on:

- › Press .
- Measurement view is opened: The current reading is displayed, or ---- lights up if no reading is available.
Instruments with a memory: The activated location is displayed (topmost line).

-or-

The instrument is switched on for the first time, a reset was carried out or the power supply was interrupted for a lengthy period of time:


- The **Language** function is opened.
↪ See the chapter LANGUAGE, p. 44.

> **Switching the instrument off:**

- › Press and hold  (for approx. 2s) until the display goes out.

5.3 Display light

> **Switching the display light on/off:**

- ✓ The instrument is switched on.
- › Press .




6. Setting the instrument

This chapter describes the steps that are required in order to adapt the measuring instrument for specific measuring tasks.

6.1 Configuration menu

The basic settings for the measuring instrument are performed in the configuration menu.

> Opening the configuration menu:

- ✓ The instrument is in measurement view.
- Press and hold  (approx. 2s) until **config.** is displayed.
- i** Press  to go one menu level back. To leave the configuration menu, press  several times until the instrument changes to measurement view.

6.1.1 Profile





The instrument has predefined measurement profiles that are tailored to specific areas of application.

The profile setting influences the following points in measurement mode:

- Assignment of the function buttons
- Number of predefined functions
- Structure of the main menu

All functions are available in the standard profile. In the application-specific measurement profiles, the available functions are reduced to only those that are needed to ensure speedier access.

> Setting a profile:

- ✓ The configuration menu is open, **config.** is displayed.
- 1 Profile → .
- 2 Select the desired profile with  /  and confirm with .

6.1.2 Units

Predefined systems and individual setting options:

| Parameter | ISO system | US system | Individual setting options |
|-------------|------------|-----------|----------------------------|
| Temperature | °C | °F | °C, °F |

> Setting units:

- ✓ The configuration menu is open, **config.** is displayed.
- 1 Units → .
- 2 Press / ISO/US (to set the system) or a parameter (to set individually) and confirm with .
- 3 Set the system of units or the desired unit with / and confirm with .

6.1.3 Device

Instrument data

> Displaying instrument data:

- ✓ The configuration menu is open, **config.** is displayed.
- 1 Device → → Inst.data → .
- The firmware version and the serial number of the instrument are displayed.

Date/Time

> Setting the date/time:

- ✓ The configuration menu is open, **config.** is displayed.
- 1 Device → → date/time → .
- 2 Use / to set the value for **year** and confirm with .
- 3 Set the other values as described in step 2.

Battery type

To ensure that the battery capacity is displayed correctly, the battery type used must be set.

> Setting the battery type:

✓ The configuration menu is open, **config.** is displayed.

1 Device → → Bat-type → .

2 Press / Battery or ReBa and confirm with .

Auto OFF

If Auto OFF is switched on, the instrument switches itself off automatically after 10min if no button is pressed. Exception: Cyclical printing (instruments without a memory) or a measuring program (instruments with a memory) is active.

> Switching Auto OFF on/off:

✓ The configuration menu is open, **config.** is displayed.

1 Device → → Auto OFF → .

2 Press / to select On or Off and confirm with .

Reset

When a reset is carried out, the instrument is reset to the default settings, all settings/data are deleted. Exception: Language, Date/Time.

> Resetting:

✓ The configuration menu is open, **config.** is displayed.

1 Device → → reset → .

2 Reset with or cancel the reset with .

Te-Type

The probe characteristic curves stored in the instrument can be set for the probe type used.

> Setting probe type:

✓ The configuration menu is open, **Config.** is displayed.

1 Probe → → Te-Type → .

2 Select the desired probe type with / and confirm with .

6.1.4 Probe

RadioC

i Radio probes may only be used in countries in which they have been Type Approved (see application information of the radio probe).

A radio module (accessory part) is required for the use of radio probes. The instrument can establish a connection with a maximum of three radio probes.

Each radio probe has a probe ID (RF ID). This consists of the last 3 digits of the serial no. and the position of the slide switch (H or L) in the radio probe.

> Setting up a radio probe:

- ✓ A radio module (accessory part) is inserted in the instrument.
 - ⇒ See chapter COMMISSIONING, p. 37.
- ✓ The configuration menu is open, **config.** is displayed.
- ✓ The radio probe is switched on and the transfer rate is set to 2 readings per second (see the advice on using the radio probe).

1 Probe → → RadioC → .

2 Press / to select the desired channel no. for the radio probe (P.1, P.2 or P.3) and confirm with .

- The instrument searches for switched-on radio probes in the receiving range.
- The probe IDs of the radio probes found are displayed.

If no radio probes were found, this may be because of the following:

- The radio probe is not switched on or the battery of the radio probe is spent.
 - The radio probe is outside the range of the measuring instrument.
 - Sources of interference are influencing the radio transmission (e.g. reinforced concrete, metal objects, walls or other barriers between transmitter and receiver, other transmitters of the same frequency, strong electromagnetic fields).
- If necessary, rectify the possible causes of the fault in radio transmission.

Alternatively, the probe ID can also be entered manually.

➤ → Press / to enter the probe ID.

3 Press / to select the probe that is to be assigned to the chosen channel no.

4 Assign the radio probe to the chosen channel no. with .

6.1.5 Language

> Setting the language:

✓ The configuration menu is open, **config.** is displayed.

1 Language → .

2 Select the desired language with / and confirm with .

6.2 Main menu

Settings by which the measuring instrument can be adapted to the particular measuring task are performed in the main menu.

i The instrument has predefined measurement profiles that are tailored to specific areas of application.

↔ See the chapter **PROFILE**, p. 40.

The profile setting influences the number of available functions and the structure of the main menu.

The method described in this chapter for calling up the functions in the main menu relates to the **Standard** profile setting. If a different profile is set, the method for calling up individual functions may change or the function may not be available in that particular profile.

Menu overview testo 735-1




| Profile | menu items | Function |
|----------|------------|--------------------------------------|
| Standard | Delta | De/activate differential temperature |
| | cyc. Print | De/activate cycle printing |
| | Alarm | Set alarm thresholds |
| RadioC | Delta | De/activate differential temperature |
| | cyc. Print | De/activate cycle printing |
| | Alarm | Set alarm thresholds |

Menu overview 735-2

| Profile | menu items | Function |
|----------|------------|---|
| Standard | Memory | Activate/set measurement locality, print report, delete store |
| | Meas Prog. | Set/ de/activate measurement program |
| | Mean | Time/point mean calculation |
| | Delta | De/activate differential temperature |
| | Alarm | Set alarm thresholds |
| Route | Memory | Activate/set measurement locality, print report, delete store |
| | Meas Prog. | Set/ de/activate measurement program |
| | Mean | Time/point mean calculation |
| | Delta | De/activate differential temperature |
| | Alarm | Set alarm thresholds |
| Longterm | Memory | Activate/set measurement locality, print report, delete store |
| | Mean | Time/point mean calculation |
| | Delta | De/activate differential temperature |
| | Alarm | Set alarm thresholds |

>

> Opening the main menu:






- ✓ The instrument is in measurement view.
- › Press .
- Menu is displayed.
- ❏ Press  to go one menu level back. To leave the main menu, press  several times until the instrument changes to measurement view.

6.2.1 Memory (735-2 only)

Location

The active location can be changed. Up to 99 locations can be created. The numerical location designations (01-99) can be changed into any text (max. 10 characters) using the PC software.

> Changing an active location:

- ✓ The main menu is open, Menu is displayed.
- 1 Memory →  → Location → .
- 2 Press  /  to select the location to be activated and confirm with .

Protocol

Saved measurement protocols can be printed out on a Testo printer (accessory part) via the infrared interface.

> Printing a measurement protocol:

- ✓ The main menu is open, **Menu** is displayed.
- 1 **Memory** → → **Protocol** → .
- 2 Press / to select the measurement protocol that is to be printed.
- 3 Press to start printing out the measurement protocol.

Delete

The entire memory with all measurement protocols can be cleared.

> Clearing the memory:

- ✓ The main menu is open, **Menu** is displayed.
- 1 **Memory** → → **Delete** → .
- 2 Press to clear the entire memory.

6.2.2 Measuring program (735-2 only)

A measuring program can be programmed and activated/deactivated:

| Designation | Description |
|-------------|--|
| Off | Measuring program switched off: Readings can be stored manually |
| AUTO | Automatic measuring program: The measuring cycle (min. 1s) and the number of readings can be set freely. |

> Deactivating a measuring program:

- ✓ The main menu is open, **Menu** is displayed.
- 1 **Meas.Prog** → .
- 2 Press / to select **Off** and confirm with .
 - The instrument returns to measurement view.

> **Programming and activating the AUTO measuring program:**

✓ The main menu is open, **Menu** is displayed.

1 Meas.Prog → .

2 Press / to select **AUTO** and confirm with .

The measuring cycle is set in the order: seconds/minutes/hours.

3 Press / to set the measuring cycle in seconds and confirm with .

4 Perform the setting for minutes and seconds as described in step 3.

5 Press / to set the number of readings and confirm with .

- The instrument returns to measurement view.

6.2.3 Mean (735-2 only)>

Timed

The mean is formed as a moving mean value.

> **Activating timed mean calculation:**

✓ The main menu is open, **Menu** is displayed.

1 Mean → → Timed → .

2 Press to start mean calculation.

Press to stop mean calculation.

Multi-point

The mean is formed as a moving mean value.

> **Activating multi-point mean calculation:**

✓ The main menu is open, **Menu** is displayed.

1 Mean → → Multi-poi → .

2 Press to include readings.

Press to stop mean calculation.

6.2.4 Cyclical Print (735-1 only)

The Cyclical Print function can be activated/deactivated. A measuring program for cyclical printing can be programmed. This enables readings (up to 999) to be printed in a defined measuring cycle (min. 1min). The readings are sent to a Testo printer.

> Activating cyclical printing/programming a measuring program:

✓ The main menu is open, **Menu** is displayed.

1 **cyc.Print** → .

2 Press / to select **Off** (deactivated) or **On** (activated) and confirm with .

The measuring cycle is set in the order: minutes/hours.

3 Press / to set the measuring cycle in minutes and confirm with .

4 Perform the setting for hours as described in step 3.

5 Press / to set the number of readings and confirm with .

- The instrument returns to measurement view.

6.2.5 Alarm

The alarm thresholds can be set. The default settings for the alarm thresholds are the limit values for the measuring range.

If an alarm threshold is exceeded or undershot during a measurement, an alarm tone is emitted.

i testo 735-2 only: The alarm thresholds are related to the location. They are only applied to the location that was activated in the setting.

> Setting alarm thresholds:

✓ The main menu is open, **Menu** is displayed.

testo 735-2 only:

➤ Activate the location for which the settings are to apply.

1 **Alarm** → .

2 Press / to select **Max** (upper alarm threshold) or **Min** (lower alarm threshold) and confirm with .

3 Press / to set the value and confirm with .

7. Measuring

This chapter describes the steps that are required to perform measurements with the product.

Particular probes must be plugged in or switched on and registered (radio probes) according to the variable that is to be measured.

Some probes require a warming-up phase until they are ready to measure.


> Taking a measurement:

- ✓ The instrument is in measurement view.
- ✓ The measuring program AUTO is not activated (735-2 only).
- › Put the probe in position and take the readings.

> Changing the upper measurement channel line display:

- › Press .

> Changing the lower measurement channel line display, showing the max./min. value of the variable in the upper measurement channel line:



- › Press .
- The following are displayed in consecutive order:
 - Available measurement channels
 - Maximum value of the variable in the upper display line
 - Minimum value of the variable in the upper display line
 - Lower measurement line not shown

> Resetting max./min. values:

The minimum or maximum values of all measurement channels are reset.

- 1 Press  several times until the maximum or minimum value is displayed.
- 2 Reset the max./min. values with .

> Holding readings:

- › Press .
- › Press  to change back to displaying the actual reading.


> **Saving readings (735-2 only):**

› Press **Save**.

- A measurement protocol with the readings of all available measurement channels is created for the active location.

> **Timed mean calculation:**

The mean is formed as a moving mean value and individual values are not displayed.


1 735-1: Press **MEAN**, 735-2:  → Mean → **OK**.

2 Timed → **OK**.

3 Press **Start** to start mean calculation.
Press **End** to stop mean calculation.

> **Multi-point mean calculation:**

The mean is formed as a moving mean value.

1 735-1: Press **MEAN**, 735-2:  → Mean → **OK**.

2 Multi-poi → **OK**.

3 Press **Pick** to include readings.
Press **End** to stop mean calculation.

> **Running the AUTO measuring program (735-2 only):**

✓ The instrument is in measurement view and the AUTO measuring program is activated.

1 Start the measuring program with **Start**.

- The measuring program starts. The readings are recorded.
- The measuring program continues to run until cancelled with **End** or until the end criterion is met (number of readings is reached or).
- The readings are saved in a protocol.

> **Cyclical printing (735-1 only):**

✓ The instrument is in measurement view and Cyclical Print is activated.

› Start cyclical printing with .

- The measuring program starts. The readings are transmitted to the Testo printer.
- Measurement continues to run until cancelled with **End** or until the end criterion is met (number of readings is reached).

8. Care and maintenance

This chapter describes the steps that help to maintain the functionality of the product and extend its service life.

> **Cleaning the housing:**


- › Clean the housing with a moist cloth (soap suds) if it is dirty. Do not use aggressive cleaning agents or solvents!

> **Changing the battery/rechargeable battery:**

- ✓ Instrument is switched off.
- 1 Undo the two screws on the rear of the instrument and lift off the battery compartment cover.
- 2 Remove spent batteries/rechargeable batteries and insert new batteries/rechargeable batteries (3x mignon) into the battery compartment. Observe the polarity!
- 3 Replace the battery compartment cover and tighten the two screws.

9. Questions and answers

This chapter gives answers to frequently asked questions.

| Question | Possible causes | Possible solution |
|---|--|---|
|  lights up | · Instrument battery is almost spent. | · Replace instrument battery. |
| Instrument switches off automatically. | · Auto Off function is switched on. · Residual capacity of the battery is too low. | · Switch function off. · Replace battery. |
| Display: ----- | · Probe is not plugged in. · Radio contact with radio probe is interrupted. · Probe break. | · Switch instrument off, connect probe and switch instrument back on again. · Switch radio probe on, if necessary register radio probe again. · Please contact your dealer or Testo Customer Service. |
| Display: uuuuu | · Permitted measuring range was undershot. | · Keep to permitted measuring range. |
| Display: 00000 | · Permitted measuring range was exceeded. | · Keep to permitted measuring range. |
| Instrument settings are no longer correct | · Power supply was interrupted for a long time. | · Re-enter instrument settings. |

If we are unable to answer your question, please contact your dealer or Testo Customer Service. Contact details can be found on the guarantee card or on the Internet under *www.testo.com*.

10. Technical data

Measuring ranges and accuracies

| Parameter/Probe type | Measuring range | Accuracy | Resolution |
|---------------------------------------|-----------------|--|----------------------|
| Temperature/Pt100 | -200...+800°C | ±0.2°C (-100.0...+199.9°C) | 0.05°C |
| | -328...+1472°F | ±0.2% of reading (rest of range) ±0.4°F (-148.0...+391.9°F) ±0.2% of reading (rest of range) | 0.05°F |
| Temperature/ Type K/T | -200...+1370°C | ±0.3°C (-60.0...+60.0 °C) | 0.1°C |
| | -328...+2498°F | ±0.5% of reading (rest of range) ±0.6°F (-76...+140°F) ±0.5% of reading (rest of range) | 0.1°F |
| Temperature/Pt100, Probe 0614 0235 | -40...+300°C | See probe data | 0.001°C ¹ |
| | -40...+572°F | | 0.001°F ¹ |

¹ in range -40...+199.9°C/-40...391.9°F, 0.01°C/0.01°F in rest of range

Further instrument data

| Characteristic | Value |
|-----------------------------|---|
| Probe connections | 2x Omega TC socket, 1x Mini-DIN socket, radio module (accessory) |
| Memory | 735-2 only: max. 99 locations, up to 10000 readings (depending on number of locations, protocols, channels) |
| Battery life | approx. 200h with probe type K/T approx. 50h with probe Pt100 approx. 60h with probe Pt100 06140235 |
| Power supply | 3x mignon battery (included in delivery)/rechargeable battery or mains unit (accessory part) |
| Housing material | ABS/TPE/metal |
| Dimensions | 225 x 74 x 46mm |
| Operating temperature range | -20...+50°C |
| Storage temperature | -30...+70°C |
| Measuring rate | 2/s |
| EC Directive | 89/336/EEC |
| Warranty | Instrument: 2 years |

11. Accessories/spare parts

This chapter gives important accessory and spare parts for the product.

| Name | Part no. |
|--|-----------|
| Probes | |
| Water-proof immersion/penetration probe, TC type K | 0602 1293 |
| Water-proof surface probe with widened measurement tip for smooth surfaces, TC type K | 0602 1993 |
| Robust affordable air probe, TC type K | 0602 1793 |
| Robust, water-proof Pt100 immersion/penetration probe | 0609 1273 |
| Robust, water-proof surface probe, Pt100 | 0609 1773 |
| Highly accurate Pt100 immersion/penetration probe | 0614 0235 |
| Miscellaneous | |
| Plug-in mains unit, 5VDC, 500mA with European plug | 0554 0447 |
| External recharger incl. 4 Ni-MH rechargeable batteries with built-in, international plug, 100-240V, 300mA, 50/60Hz, 12VA/instrument | 0554 0610 |

For a complete list of all accessories and spare parts, please refer to the product catalogues and brochures or look up our website: www.testo.com



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