Manual

Electronic Inclinometer

Clinotronic S
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1. Manual Clinotronic S

Introduction

Before you start

Read this manual carefully before using the Clinotronic S for the first time.

Please also note the safety instructions.

Note ♥: Mishandling or unintentional deletion of calibration data are prevented by Note ♥

Note ♥, Attention !, Warning!

To make your reading easier, the following references are used in this manual:

- "Note ♥:" This highlights useful tips.

- "Achtung !:" This is to avoid mishandling or disadvantages

- This indicates notes that are required by law.

Manufacturer name and address

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Fax +41 52 233 53 20  wyler@wylerag.com

Representatives: www.wylerag.com
Product brand and type designation

Product brand

**Clinotronic S**

type designation:

*Art. No. 015-S-XG45  without inserts

![Image of Clinotronic S without inserts]

*Art. No. 015-S-HG45  with two magnets on each side

![Image of Clinotronic S with two magnets]

*Art. No. 015-S-PG45  with two M3 threads on all sides

*Subject to change

Applicable documents

The **CE Declaration of Conformity** can be found on our homepage at: www.wylerag.com at the product page Clinotronic S "Download".
2. Product description, technical data

Measuring device, accessories

The measuring device
- The housing of the Clinotronic S is made of black anodized aluminum.
- The four measuring bases are located in each of the quadrants (frame).
- The front and back are equipped with a plastic film.
  - Screen area: The film is equipped with barely visible distance points against streaking when touched.
- The front consists of the color screen and the operating membrane keyboard.
- On the right side is the USB-C port.
- As standard, the device is equipped with Bluetooth® BLE and the wylerCONNECT MINI.
- An infrared (IR) trigger for data acquisition is also included.
- The power supply consists of a replaceable, rechargeable 3.6V lithium-ion battery.
  - The access is on the left.
- The device can be charged via the USB-C port and the included charging power supply (5V) or on laptop.

Dimension, weight, type of protection, storage

- Measuring range: ± 45°
- Resolution: 5 arcsec or 0.02mm/m
- Dimension L x H x T: 100 x 75 x 30 mm
- Weight: 400 g
- Protection class: IP64
- Storage conditions: -20° bis +60° C
- Operating conditions: 0° to 40 ° C

Standard accessories
- wylerCONNECTMINI (Bluetooth® BLE)
- USB power adapter and cable USB-A/USB-C
- Infrared (IR) trigger
- Li-ion battery
- Plastic carrying case
- Manual
- Android App in Google Store, iOS App in Apple Store
**Optional accessories**  www.wylerag.com

**Mechanically**
- Magnets below, above, left, and right  
  Art. No. 015-S-HG45
- Threads M3 bottom, top, left, and right  
  Art. No. 015-S-PG45

**Software**
- Interface software
- Geometry measuring software
- Monitoring software
- Software tools

**Calibration**
- wylerMASTER

**Remote display**
- Android smartphone with installed App

**Power**
- Extra Li-ion batteries
- External charger for max two Li-ion batteries
3. Safety instructions

- The device complies with the applicable directives and standards

Consult:
- The current CE Declaration of Conformity Clinotronic S
- This instruction manual and the quick reference
- The type label on the back of the device

Intended use

- The Clinotronic is designed exclusively for measuring inclination angles.

For this purpose, the device is placed on a flat, stable surface or held by hand

The measured value can

- be read directly on the screen
- be read by Bluetooth® and app on smartphones as Android® or iOS®
- be sent via Bluetooth® and wylerCONNECT MINI to a Windows computer

Attention! There are no other uses!

Not intended use!

- The device must not be used as a base, e.g. be used in a vise. The precision housing can be deformed and will be unusable.
- It must not be used under water, as the tightness class is insufficient and the device may suffer a short circuit inside.
- It must not be used in any way as a hammer as this damages the measuring surfaces, and the device is therefore no longer able to measure.
- The device must not be thrown. The aluminum housing can cause serious injuries and damage

Electromagnetic environment

Note♥: The electromagnetic environment should be assessed before operating this equipment

WARNING

Do not use this device near sources of strong electromagnetic radiation (such as unshielded, intentionally operated high-frequency sources), as these may interfere with proper operation.
Additional information for FCC (USA) and IC (Canada)

FCC part 15 and ICES-0003

Device Class A

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”.

This Class A digital apparatus complies with Canadian ICES-0003.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
Safety instructions lithium-ion batteries

The lithium-ion batteries 3.6V are rechargeable
Type of battery: **18650**

**WARNING**

Only the original type 18650 lithium-ion batteries may be used

**WARNING**

Lithium-ion batteries are only allowed to be charged with the supplied chargers. Lithium-ion batteries are only allowed to be charged under supervision.

**WARNING**

Close the lithium-ion battery cover carefully, but not with heavy force! A rubber gasket is installed to provide a seal.

**WARNING**

Note the current airline regulations regarding the transport of lithium-ion batteries in any baggage!

**WARNING**

Do not immerse the device in water! The lithium-ion batteries are protected against overcharging and short circuiting. Underwater, the short-circuit protection is not ensured!
Frequency of calibration

- The calibration schedule must be determined by the customer.

- Our non-binding recommendation:
  
  In case of suspected damage: immediately
  For weekly use or more: every year
  For monthly use: every 2-3 years

- WYLER AG operates a calibration center for the parameters length, planarity and angles according to EN / ISO / IEC 17025.

- The accreditation is carried out by METAS.

  WYLER accreditation number: SCS 044
4. Prepare product for use

Contents of case

1  Case
2  Clinotronic S
3  Lithium-ion batteries 3.6V, Type 18650
4  USB power adapter
5  Cable USB-A/USB-C
6  Infrared (IR) trigger
7  wylerCONNECT MINI
   →  Quick reference
   →  Manual download at www.wylerag.com
Controls

- **1** Screen
- **2** On/Off
- **3** Menu
  - Enter
- **4** Arrow button down
  - Shortcut (hold 2 seconds) "Relative Zero"
- **5** Back/cancel
- **6** Lithium-ion battery lid
- **7** USB-C connection
- **8** Infrared (IR) trigger
Replacement of lithium-ion (Li-ion) batteries

1 Remove battery lid, remove depleted Li-ion battery
2 Insert fully charged Li-ion battery (nose forward)
   Close the lid. (Don't tighten too much)

Charging with power adapter or laptop

A Charging with power adapter
   - Plug the charger into a power outlet (100-240V AC)
   - Connect the Clinotronic S with the cable to the power adapter

Note ♥: While charging, you can use the device in only limited ways.
   During the charging process, the specification of the device can not be guaranteed
   due to temperature development during charging.
   Charge the device before measuring!

   - The charging symbol appears in the upper right corner:
   - The device will automatically start charging
     The following states of charge appear on the screen for 100%: or 75%: or 50%:
     Almost empty: 25%
   - Charge the Clinotronic S as soon as possible until the symbol 100% appears.
   - Loading time full capacity: 8 h
   - Typical usage time with radio switched on:
     - backlight medium: 33 h

B Charge via USB cable to the PC or laptop
   - Connect the Clinotronic S with the cable to the PC or laptop
   - The Clinotronic S receives only a trickle charge with minimal power.
   - This allows you to measure without heating up the Clinotronic S.
   - Charge the device before measuring!
5. Operation

5.1 Configurations

As standalone

for immediate measuring and reading

Wireless with an Android® or iOS® smartphone and the free app "Clinotronic S" as a remote display

Minimum requirement for Android®: 

for iOS®:

Wireless with the wylerCONNECT MINI for Windows computer

max 7 ⇒ wylerCONNECTMINI ⇒ PC  
e.g. with wylerEXPLORER

Note ♥: The wylerCONNECT MINI connects up to seven Clinotronic S units with the Windows computer.

Use our software products to collect and display data. Visit www.wylerag.com

Connected via cable (USB-C / USB-A) with a Windows computer

Note ♥: With the cable, you can update the firmware of the Clinotronic S via Windows computer.

The corresponding firmware loader can be found at www.wylerag.com
5.2 Measurement bases

The device is equipped with four (4) measuring bases with flat measuring surfaces

Horizontal application

Vertical application
5.3 Screen overview and keyboard

- **1** Screen
- **2** Serial number; 2a IR number + 1 x flash when triggered
- **3** Display of value (depending on the selected unit)
- **4** Radio activated, not activated:
- **5** Charge indicator , empty , charging
- **6** Mode of measurement ABS = Absolute Mode of measurement REL = Relative Zero (On-site relative zero)
- **7** Local gravity is enabled Standard value (9.8065 m/s²)
- **8** Calibration executed with wylerMASTER
- **9** Graphical display of the entire angle range
- **10** Graphical display of the angle range near zero
- **11** Gradient triangle and symbol plus / minus according to inclination
- **12** Unit (depending on the setting)
- **13** On/Off within menu: Up arrow
- **14** Menu within menu: Enter within submenu: Move cursor to the right
- **15** Arrow down Shortcut (press 2 seconds and release): "Relative Zero"
- **16** Back / Cancel within Menu: Move cursor to the left
5.4 Switching on/off, measuring range

Switch On

- Press the button \( \text{\textcircled{\textup{\textbf{\textcolor{green}{\textbf{\textbf{}}}}}}} \) The screen starts immediately.

Switch Off

- To switch off, press the button \( \text{\textcircled{\textup{\textbf{\textcolor{green}{\textbf{\textbf{}}}}}}} \) until the following message appears:

```
Power Off
```

Release the button. The device is switched off.

Measuring range

- The measuring range at new state or after factory reset: \( \sim 46.5^\circ \)
- After wylerMASTER calibration (see chapter 5.9.2.3) : \( 45^\circ \)

Over range

```
The device stands in over range condition
```
5.5 "Settings" menu, entry and exit

- Press the button to enter the "Settings" menu

  In "Settings" contents:
  - Device
  - Unit
  - Measurement
  - Device Information

- Use the up arrow and down arrow to move the cursor up and down.

- Using select the desired menu item in the menu.

- With the button Back / Cancel you return to the measuring mode

Note ♥: With one or repeated clicks of you will return to the next highest level in the menu until the measurement mode appears.

Note ♥: With you can also cancel any function (such as Relative Zero, etc.)
5.6 Settings in "Device"

Enter with ▲ into the "Settings" menu

- Use ▼ ▲ to select "Device"
- after that press: ▼

"Device" contents:

- Brightness .....................
- Bluetooth®......................
- Zapper teach-in..............
5.6.1 Device: "Brightness"

- In the "Devices" menu, use \(\downarrow\) \(\uparrow\) and \(\square\) to select "Brightness".

- Use \(\downarrow\) \(\uparrow\) to select the desired brightness:
  - Off
  - Medium
  - High

- Confirm your choice with \(\square\)
  - or
  - cancel with \(\rightarrow\)

Note ♥: In both cases you will jump back to the "Device" menu.

Attention !: As the brightness level increases, the unit consumes more power.
5.6.2 Devices: "Bluetooth"

- In the "Devices" menu, use and to select "Bluetooth"

- Use to select the desired setting:
  - On
  - Off

- Confirm your choice with or
- cancel with

Note ♦️: In both cases you jump back to the "Device" menu
5.6.3 Zapper teach-in

- In the "Devices" menu use \( \downarrow \) and \( \uparrow \) to select "Zapper teach-in".

- Press the zapper (Infrared trigger) until "OK" appears.
- The zapper (Infrared trigger) is identified.

- When the zapper is pressed, the IR number appears in the top line for 1 second.

Note ♥: You can "Teach-in" several devices with the same Zapper
Application: Alignment with multiple devices simultaneously.
5.7 Settings in "Units"

Use \[\text{Enter}\] to enter the "Settings" menu

- Use \[\text{Down}\] and \[\text{Up}\] to select "Units" \[\text{Enter}\], after that: \[\text{Enter}\]

"Units" contents:

<table>
<thead>
<tr>
<th>Unit</th>
<th>digits</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEG&quot;&quot;</td>
<td>## &quot; ## ' ## &quot;</td>
<td>Degree - Minute - Second</td>
</tr>
<tr>
<td>DEG°</td>
<td>## . ##</td>
<td>Degree decimal</td>
</tr>
<tr>
<td>mm/m</td>
<td>### . ##</td>
<td>Millimeter per Meter</td>
</tr>
<tr>
<td>&quot;&quot;10&quot;</td>
<td>## . ####</td>
<td>Inch per 10 Inch</td>
</tr>
<tr>
<td>&quot;&quot;12&quot;</td>
<td>## . ####</td>
<td>Inch per 12 Inch</td>
</tr>
<tr>
<td>mRad</td>
<td>### . ##</td>
<td>Milliradian</td>
</tr>
<tr>
<td>Percent %</td>
<td>### . ##</td>
<td>Percent %</td>
</tr>
<tr>
<td>per mille</td>
<td>#### . ##</td>
<td>Per mille %</td>
</tr>
<tr>
<td>Gon</td>
<td># . ####</td>
<td>400 gon = 360°</td>
</tr>
<tr>
<td>Artillery Promille</td>
<td>###</td>
<td>1 A‰ = 360° / 6400</td>
</tr>
<tr>
<td>mm/1435 mm</td>
<td>#### . ##</td>
<td>Millimeter per self-selected base length in mm (Preset: mm/1435mm, European standard gauge)</td>
</tr>
<tr>
<td>&quot;/10.00&quot;</td>
<td>### . ####</td>
<td>Inch per self-selected base length in inch</td>
</tr>
<tr>
<td>Slope:1/xxx</td>
<td>1/#.####</td>
<td>Slope / Sink parameter (without unit)</td>
</tr>
</tbody>
</table>
5.7.1 "Units"

- In the "Units" menu use \(\text{△}\) and \(\text{○}\) to select the desired unit.

- Confirm with \(\text{○}\) e.g.: mm/m

The digits and the unit adjusts according to your choice.

Note ♥: Always check the unit at the beginning of a measurement!
5.7.2  Self-selected base mm/xxxx mm

Note ♥: The unit mm/xxxxmm allows a freely selectable base length

- In the "Units" menu use ▼ ▲ and ◼ to select mm/1435mm

Note ♥: 1435 is the last selected value, hence it may be different.

Value adjustment menu:

- Navigate with ▼ to the right  ◼ to the left
- The value of the numbers change with ▲ in the direction of +  ◼ in the direction of -
- Finish the input with ▼ at the last digit
- In measuring mode, the modified unit appears at the bottom right

Note ♥: The modified base also appears in the "Units" menu
Note ♥: Correspondingly, proceed with the unit "/10.00" (inches per selected base length in inches)
5.8 Type of Measurement

In the "Devices" menu use 🔽 ▼ and ▶ to select "Measurements"

- after that:

The "Measurement" menu contents:

- Absolute.............. ABS uses last measured zero deviation
- Absolute Zero ....... ABS0 triggers reversal measurement (zero deviation)
- Relative Zero......... REL current position becomes reference level (relative zero)
5.8.1 Absolute measurement

Use   to enter the "Measurement" menu

- In the "Measurement" menu, use   to select "Absolute"

- after that:   

- The device returns to the measurement mode

Note ♥: How to use: Device is in Relative Zero mode. 
The last zero offset will be used now

The measurement mode returns to "Absolute"
5.8.2 Reversal measurement "Absolute Zero"

Use ← to enter the "Measurement" menu

- In the "Measurement" menu, use ▼ ▲ to select "Absolut Zero" ABS

The menu now guides you through the reversal measurement

- Place the device on a flat and stable surface. → Position H

Note ♥: To get a reliable reversal measurement, the plateau should be aligned within +/- 0.06mm

- Trigger the measurement H with the IR trigger or with □

Note ♥: You can cancel this process at any time with ◀ and return to the measurement screen
Please wait, the device records a stable value $H$.

Attention!: Please do not touch the device until the measured value is recorded!

Now turn the device at the same position by 180°. → Position $H'$

- Trigger the measurement $H'$ with the IR trigger or with

Attention!: Please do not touch the device until the measured value is recorded!

The device returns to the measuring mode immediately after reading the measured value $H'$

Attention!: The measurement mode "Relative Zero" is displayed with $\text{ABS}$ at the bottom left.
5.8.3 Temporary reference level "Relative Zero"

Use ▼ to enter the "Measurement" menu

- In the "Measurement" menu, use ▼ ▲ to select "Relative Zero" REL

The menu now guides you through the reversal measurement "Relative Zero"

- Note ♥: Shortcut! You can choose "Relative Zero" directly from the measurement mode by pressing the ▼ button for 2 seconds and then releasing

- Place the device on a flat and stable surface. → Position H

- Trigger the measurement H with the IR trigger or with

- Note ♥: You can cancel this process at any time with and return to the measurement screen
Please wait, the device records a stable value $H$.

Attention!: Please do not touch the device until the measured value is recorded!

The instrument will return to measuring mode immediately after reading the measured value $H$.

Attention!: The measurement mode "Relative Zero" is displayed with $\text{REL}$ at the bottom left.

The device has now set the current level to relative zero.

Note ♥: Around the zero position, the inclination triangle including the algebraic sign can alternate between + and −.

This is not a malfunction.
5.9 Device Info

Use to enter the "Settings" menu

- Use and to select "Device Information"

- after that:

"Device Info" contents:

Device Information
Advanced Settings

Note ♥: With you return to the "Settings" menu.
5.9.1 Device Info

Use [ ] to enter the "Device Information" menu.

**Device Information**

- **Device Name**: ClinotronicS
- **Serial Number**: V0925
- **FW-Version**: 9911
- **HW-Version**: revC
- **Measuring Range**: 45,000°
- **Measuring Resolution**: 0.02mm/m
- **Bluetooth address**: 00.00.00.00.00.00.00

List of internal data.
The firmware version changes when a firmware update has been made.

- **Note** ✽: With [ ] you return to the measurement mode.
5.9.2 Advanced Settings

Use 🔄 to enter the "Device Information" menu

- Use 🔄 to select 🔄 Advanced Settings, after that press: 🔄

Attention!: This procedure prevents accidental mishandling.

"Adv. Settings" contents:
- Disable local gravity
- Use local gravity
- wylerMASTER
- Factory Reset

Reset local gravity to default 9.8065 m/s²
Set local gravity
Calibration with wylerMASTER (not included)
Back to factory settings
5.9.2.1 Use Local gravity

In the "Device info" menu, use ▼ ▲ and □ to select "Advanced Settings".

- Use ▼ ▲ □ to select "Use local gravity".

Note ♥: The values can only fluctuate between 9.7xxx and 9.8xxx.
The device returns to measuring mode.

Note ♥: The measurement mode shows the globe symbol as a sign of using the local gravity
5.9.2.2 Disable local gravity

In the "Device info" menu, use \(\downarrow\) and \(\uparrow\) and \(\square\) to select "Advanced Settings".

- Use \(\downarrow\) and \(\uparrow\) to select "Disable local gravity".

The globe icon disappears, indicating that the value of 9.8065 is restored.
5.9.2.3 wylerMASTER calibration

Attention!: A calibration with the wylerMASTER requires the input of your local gravitation constant. It becomes the new reference! This makes it possible to continue to use the item "Use local gravity"! ⚠️

With factory reset ⚠️ you can return to factory settings.

Attention!: The wylerMASTER itself must stand on a stable and flat surface, aligned within +/- 0.06mm in x and y direction. T = 20 °C +/- 2 °.

- In the "Device info" menu, use ▼ ▲ and ▼ to select "Advanced Settings".

- Use ▼ ▲ to select "wylerMASTER" ⚠️, after that

```
Advanced Settings

Disable local gravity
Use local gravity
wylerMASTER
Factory Reset
```

- Enter your local gravitational constant.

```
Enter your local gravity as new reference gravity!
▲ +
▼ -
□→9.8100□
```

- Navigate with ▼ to the right, with ▼ to the left

- Change the value with ▲ in the direction of +, and with ▼ in the direction of -

- Finish the input with ▼ at the last digit.
The calibration begins:

Note ♥: The menu will guide you through the process.

- Position the device on the wylerMASTER in position 1/21: -50°

With the trigger or by pressing start the measurement.

Note ♥: You can cancel the calibration at any time with 😞. The last calibration is retained. The device returns to measuring mode.

After successful measurement, position 2/21 is displayed at -45°
Note ♥: You can measure a failed calibration point again.

Press ▲ the last measurement is canceled. E.g. from 0° back to -5°

- Carry out the calibration according to the above steps until the 21st (last) measurement.

- After step 21, the calibration is completed. Now the reversal measurement (Absolute Zero) automatically follows. Follow the instructions.

- Place the device on a **flat and stable** surface. → Position H

Note ♥: To get a reliable reversal measurement, the plateau should be aligned within +/- 0.06mm.

- Trigger the measurement H with the IR trigger or with ☐
Note ♥: You can cancel this process at any time with ⏯️ and return to the measurement screen.

Please wait while the device records a stable value $H$.

Attention !: Please do not touch the device until the measured value is recorded!

- Now turn the device at the same position by 180°. → Position $H'$

- Trigger the measurement $H'$ with the IR trigger 🔴 or with 📽️

Attention !: Please do not touch the device until the measured value is recorded!

- The device automatically returns to measuring mode

Attention! : The device indicates “!..!” to show the wylerMASTER calibration applied.
Note ♥: If the device is in the wrong position, an error message "Wrong Position" appears.

1. Acknowledge this message with
2. Position the device as required by the user interface.

Example

1.

2.

Note ♥: The measuring range after a wylerMASTER calibration is 45 °

After a factory reset, the measuring range is slightly increased to about 46.7 °
5.9.2.4 Factory Reset

"Attention !:" The factory reset resets all settings back to factory settings including the wylerMASTER calibration and the local gravitational constant.

In the "Device info" menu, use and to select "Advanced Settings"

• Use to select "FactoryReset"

after that:

• Use to select "Factory Reset"

Attention !: This procedure prevents accidental mishandling.

Attention !: The Clinotronic S now has its original data in memory. For a precise absolute measurement, please carry out a reversal measurement process as described in chapter 5.8.2.
# 6. Specifications

<table>
<thead>
<tr>
<th>Technical specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>±45°</td>
</tr>
<tr>
<td>Resolution</td>
<td>5 arcsec or 0.02mm/m</td>
</tr>
<tr>
<td>Limit of error; $M_w = \text{rad \ out}; t = \text{constant}$</td>
<td>0.04% $M_w$ / minimum 5 arcsec</td>
</tr>
<tr>
<td>Drift / 24 h</td>
<td>max 10 arcsec</td>
</tr>
<tr>
<td>Response time</td>
<td>≤ 5 sec</td>
</tr>
<tr>
<td>Mechanical accuracy of the housing</td>
<td>Flatness of the measuring bases 0.01 mm  Rectangularity to the basic base 0.01 mm  Parallelism to the basic base 0.01 mm</td>
</tr>
<tr>
<td>Digital output</td>
<td>USB-C</td>
</tr>
<tr>
<td>Power supply</td>
<td>- Lithium ion battery - external power supply 3.6V, 3333 mAh, (12 Wh) 5V (USB-C)</td>
</tr>
<tr>
<td>Operating time at medium brightness, Bluetooth® activated</td>
<td>33h</td>
</tr>
<tr>
<td>Charging time after complete emptying</td>
<td>8h</td>
</tr>
<tr>
<td>Maximum power consumption during the charging process, incl. max brightness and Bluetooth® on</td>
<td>500 mA, 5V</td>
</tr>
<tr>
<td>Dimension (L x W x H)</td>
<td>100 x 75 x 30mm</td>
</tr>
<tr>
<td>Weight of device / incl. accessories and case</td>
<td>400g / 850g</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP64</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20° to +60° C</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0° to 40 ° C</td>
</tr>
</tbody>
</table>
7. Maintenance

For safe operation

Store the device in a dry carrying case
at a minimum of: - 20 ° C
at a maximum of: +60 ° C

Cleaning

- The device can be cleaned with commercially available alcohol-based cleaning agents and disinfectants.

Troubleshooting

Please contact:

**WYLER AG**
Im Hoelderli 13
8405 Winterthur, Switzerland
Tel. +41 52 23 66 66 www.wylerag.com
Fax +41 52 233 53 20 wyler@wylerag.com or

**The country representatives can be found at:**
[www.wylerag.com](http://www.wylerag.com)

Repackaging before re-transport

Ship the device in a carrying case in an additional cardboard box.
Observe the regulations of your chosen transport company.

Address customer service

If you have any questions, and if you are located in Switzerland:

**WYLER AG**
Im Hoelderli 13
8405 Winterthur, Switzerland
Tel. +41 52 23 66 66
Fax +41 52 233 53 20
[www.wylerag.com](http://www.wylerag.com)
wyler@wylerag.com

For questions, if you are outside Switzerland in a country with a WYLER representative:

**Country representatives:** [www.wylerag.com](http://www.wylerag.com)

Otherwise, contact us directly
8. Disposal

Decommissioning, disposal

- When decommissioning the Clinotronic S, note the local regulations for the disposal of electronic waste.
- The Li-ion batteries must be disposed of properly.

Document version and release notes

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