

Operating and Installation Instructions



Dosing Unit

CPR Touch XL-2S / 1S / 0S

for dosing unit 2S, without control unit



Suitable for operating instructions of the measuring and control unit:

CPR Touch XL, No.: OI MR 001

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Subject to technical modifications

These operating instructions are an English translation of the original German version by the company WDT.

Responsible for the content:

Co. WDT - Werner Dosiertechnik GmbH & Co. KG

Hettlinger Str. 17

D-86637 Wertingen - Geratshofen

Phone: +49 (0) 82 72 / 9 86 97 – 0

Fax: +49 (0) 82 72 / 9 86 97 – 19

Email: info@werner-dosiertechnik.de

1 About these instructions / general

1.1 Scope of applicability

These instructions describe the functioning, installation, commissioning and operation of the CPR TOUCH XL dosing system along with the corresponding accessories.
The Operating Instructions must be read carefully before use and kept on the device for direct use!

These Operating Instructions are valid in conjunction with the Operating Instructions for Measuring and Control Unit CPR Touch XL No.: OI MR 001.

1.2 Target group

Only our authorised partners and people who have been trained in the functioning of the device are permitted to work on the system, provided that they have read and understood these operating instructions.

Electrical connection work may only be carried out by appropriately trained specialists!

1.3 Symbols used

The following types of safety notices and general notices are used in this document:



DANGER!

“**DANGER**” denotes a safety notice which, if disregarded, **may lead to serious or life-threatening injuries!**



CAUTION!

“**CAUTION**” denotes a safety notice which, if disregarded, **may lead to minor or moderate physical injury!**



ATTENTION!

“**ATTENTION**” denotes a safety notice which, if disregarded, may lead to **material damage or malfunctions!**



DANGER DUE TO ELECTRICAL VOLTAGE!

“**DANGER DUE TO ELECTRICAL VOLTAGE**” denotes a safety notice which, if disregarded, may lead to **serious or life-threatening injuries, or to extensive material damage!**



CORROSIVE!

“**Corrosive**” denotes a safety notice which, if disregarded when handling chemicals, may lead to **injuries or material damage.**



ESD SENSITIVE!

“ESD SENSITIVE” denotes electronic components that may be damaged by electrostatic discharges. The generally accepted safety precautions for ESD-sensitive devices must be observed when handling the devices!



Tip!

A “Tip” denotes information that may result in improvements in the operating process.



Mandatory sign

Use face protection!



Mandatory sign

Use protective gloves! In accordance with DIN EN 374



Mandatory sign

Use protective apron!



Mandatory sign

Use protective boots!

1.4 Warranty

All WDT devices and systems are manufactured using modern production methods and are subject to comprehensive quality control. If reasons for a complaint should nevertheless arise, address the claim for compensation via your dealer to WDT, in accordance with the general terms and conditions of warranty (see below).

General terms and conditions of warranty

The company WDT assumes a 2-year warranty, starting with the commissioning, up to 27 months after delivery; subject to correct installation and commissioning with a completed and signed commissioning protocol.

Exempt from this are wear parts such as gaskets, hoses, diaphragms, dosing screws, electrodes, roller carriers and other parts that are subject to mechanical or chemical wear and tear. For these we assume a warranty of 1/2 year.

Our merchandise management programme requires an invoice for each delivery (including warranty services). When returning a defective component, upon review you will receive a corresponding credit, if applicable. We request a return within 14 days.

The costs for subsequent damage and for the processing of warranty claims are excluded.

There are no warranty claims for damage caused by frost, water and electrical overvoltage or by improper handling.



Tip!

For the safeguarding of any warranty claims, please send the completed commissioning protocol, together with the defective component, to WDT. Without the commissioning protocol, we reserve the right to assert a warranty regulation.



ATTENTION!

It is not permitted to make any modifications to the device. If this specification is not observed, the warranty obligation and product liability will expire!

1.5 Further information

Additional information concerning specific topics, such as designing of the dosing performance or description of the operating parameters, may be obtained from your specialist dealer, or directly from:

WDT Werner Dosiertechnik GmbH & Co KG

Hettlinger Strasse 17

86637 Wertingen - Geratshofen, Germany

Phone +49 8272 98697-0

Fax. +49 8272 98697-19

<http://www.werner-dosiertechnik.de>

2 Safety

2.1 Intended use

The CPR TOUCH XL dosing system may only be used for the purposes described in the product description! The locally applicable regulations concerning accident prevention, occupational safety and drinking water protection must also be observed!

2.2 Safety notices

Carefully read and pay attention to the operating instructions prior to installation and use of the device!

Work on the device and changes in the settings may only be carried out by properly instructed persons!

Observe the warning notices on the device



2.2.1 Handling of chemicals, risks to humans and the environment

In the event of an emergency when dealing with chemicals you can also contact the Emergency Poison Centre!

Emergency number:

Munich Emergency Poison Centre (or any other Poison Centre)

Phone: +49 89 19240

Excerpt from the Accident Prevention Regulations, GUV-V D 5

Installation rooms for chlorination systems and storage rooms

Section 3a. (1) Chlorination systems must be installed in lockable rooms and the chemicals intended for the chlorination must be stored in lockable rooms.

Re Section 3a Para. 1:

This requirement ensures that chlorination systems and chemicals shall be protected against weather effects and unauthorised access.

(2) Rooms in accordance with Para. 1 must not be intended for the permanent presence of persons.

Re Section 3a Para. 2:

..... A “permanent” presence is given when persons are present in the room for more than 2 hours per day. Repair and maintenance work on the chlorination system are exempt from this.

2.2.2 Protective measures and rules of conduct



CORROSIVE! SAFETY EQUIPMENT!

The CPR TOUCH XL dosing system doses both the disinfectant and the pH regulator from the dosing canister.

For this reason, the greatest possible care must be taken when working with chemicals and it is essential that personal safety equipment is worn:



Face protection, protective gloves, protective apron, boots.

The disinfectant and pH regulator must not be mixed with each other or with other chemicals or substances!

Store the chemicals so that they are not accessible to unauthorised persons.

When storing chemicals observe the information under *Chapter 3.5, Storage of chemicals*.

Additional information can be found in the chemical manufacturers' safety data sheets!



ESD SENSITIVE!

The electronic components in the device control units are sensitive to electrostatic discharge. The generally accepted safety precautions for ESD-sensitive devices must be observed when handling the components.

- Disconnect the device from the voltage supply
- Discharge of personal static charge

3 **Product description – scope of delivery**

3.1 Scope of delivery / accessories

The scope of delivery includes the “CPR TOUCH XL” dosing system, which consists of the following components:

- Control with 7” colour display (see OI Part 2)
- Dosing appliance for disinfectant (optional)
- Dosing appliance for pH regulator (optional)
- Suction set
- Fine filter

The following accessories are available for the dosing system

- a) Remote display

3.2 Product description

The CPR TOUCH XL dosing system is designed for carrying out measuring and control tasks when treating swimming pool water for public and private swimming pools.

3.2.1 Functioning of CPR TOUCH XL dosing unit

The CPR TOUCH XL dosing system doses the disinfectant and the pH regulator required for neutralisation into the piping of the swimming pool water circuit.

Functions of the CPR TOUCH XL

- Measuring free chlorine with open measuring cell, potentiostatic pH value, redox potential and temperature
- Controlling chlorine dosing using the measured value for free chlorine or redox potential.
- Disinfectant dosing using peristaltic pump from the delivery canister
- pH regulator dosing using peristaltic pump from the delivery canister

3.2.2 Mounting plate with control unit, dosing unit and measuring cell block

The dosing device is delivered as a ready-assembled unit on a mounting plate. This ensures that the device is securely installed.

For transportation purposes, both electrodes along with the glass shaft have been removed from the measuring cell and delivered in a packaging box. In order to prevent the dosing hoses from becoming deformed during prolonged storage, the roller carriers for the peristaltic pumps have been removed from the motor shaft and enclosed.

The device is fitted with a touch-sensitive display. By touching a symbol or a numeric value, this will be activated for parametrisation. The adjustment menus come with additional text-based instructions.

In order to eliminate the risk of confusing both chemicals as far as possible, the dosing technology is colour-coded throughout. The colour-coding runs from the suction lance over the associated dosing pump to the dosing valve. The parts used for pH value control are located to the left and coded red. The components used for disinfection are located on the right and coded yellow.



Tip!

The chemical canisters with collecting tubs must be provided by the customer. Observe the locally applicable regulations when handling chemicals.

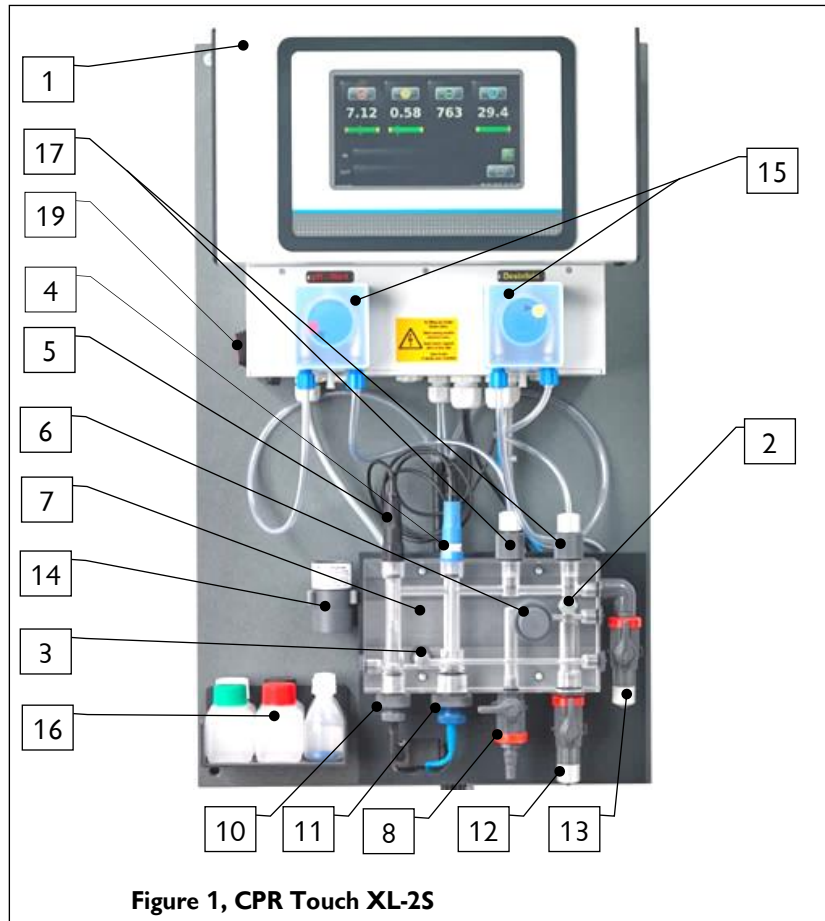


Figure 1, CPR Touch XL-2S

1. CPR Touch XL control unit
2. Flow monitoring
3. Temperature sensor
4. Combination reference-return electrode (blue)
5. pH electrode (black)
6. Flow control valve
7. PMMA measuring cell block
8. Test water tap
9. Prefilter (optional, for wall-mounting, not depicted)
10. Redox electrode
11. Chlorine electrode
12. Measuring water inlet
13. Measuring water return flow
14. Redox test cylinder
15. Dosing pumps Sa (optional)
16. Buffer solution and electrode cleaner
17. Dosing valve (optional)
18. Suction set (not visible in image) (optional)
19. Main switch

3.2.3 Disinfectant and pH regulator dosing

The pH dosing in the CPR TOUCH XL is used to control the pH Value. The pH dosing is controlled automatically by the control unit.

The pH and disinfectant dosing is performed using peristaltic pumps (15). Peristaltic pumps are able to transport even the smallest dosing quantities reliably and evenly, even when air or gas bubbles are trapped in the suction line. Rotating rollers press the dosing hose against the casing wall, which pushes the liquid in the hose out from the rollers while simultaneously feeding behind it. It is exceptionally reliable and easy to operate.

The peristaltic pump sucks the chemicals through the suction set (18) from the chemical canisters. The fill level in the canisters is determined for the empty signal using level switches.



Figure 2, pH and disinfection dosing pump

Use acid based on 37-50% sulphuric acid as a pH reducer. Concentrated **hydrochloric acid** destroys the peristaltic pump – **dilute to below 10%!** In solutions consisting of **sodium hydrogen sulphate (sodium bisulphate)** “dry acid”, **do not use concentrations above 20%** (approx. equivalent to 10% sulphuric acid).



Tip!

With a hydrochloric acid concentration of more than 10%, a Viton hose must be used in the peristaltic pump! This is resistant to a maximum acid content of 33% and must be replaced every 6 months!

Use sodium hypochlorite as a disinfectant.


3.2.4 CPR Touch XL control unit (standard)

Control unit (version CPR TOUCH XL)

See OI “CPR-Touch XL Measuring and control unit”, No.: OI MR 001.

3.3 Identification of the device / identification plate

Enter the data from your device's identification plate here.

Typ: CPR-Touch XL 2S	
Art.: <input type="text"/>	Serien Nr.: <input type="text"/>
230V/AC 1Ph ~50Hz I max. 2A	
Dosierleistung CI max. 2500ml/h	
pH max. 1250ml/h	
	Herstellung <input type="text"/>
WDT - Werner Dosiertechnik GmbH & Co. KG	
Hettlinger Str. 17 D-86637-Wertingen	

Field 1: Article no.:

Field 2: Serial no.:

Field 3: Enter date of manufacturing

3.4 Technical data

CPR TOUCH XL	
Dimensions and weights:	
Device dimensions	W 48 cm, D 17 cm, H 67 cm
Device space requirement (base)	W 100cm, D 80cm, H 200cm
Space requirement, including operation and maintenance	W 100cm, D 120cm, H 210cm
Empty weight / operating weight	approx. 12 kg / 12.3 kg
Connection data	
Electrical connection data	230VAC/50Hz ± 10%, 8W, I max. 2A, safety plug
Protection class	IP 54
Hydraulic connection data	Intake 6x1 mm Outflow 6 x 1 mm
Required duct connection	—
Operating pressure	max. 2.0 barg
Required inlet pressure	min. 0.2 barg
max. permissible counter-pressure	0 - 1.0 barg
Water supply	From swimming pool using measuring water pump: Flow pressure min. 0.2 barg <u>In exceptional cases:</u> Between circulation pump and swimming pool filter, before chemical dosing Flow pressure min. 0.2 barg
Operating data:	
Dosing performance disinfectant	0.2 l/h, 0.7l /h or 2.5 l/h, depending on design
Dosing performance pH regulator	0.1 l/h, 0.35 l/h or 1.25 l/h depending on design
Water flow	100 l/h
Medium temperature	5°C to 35°C
Ambient temperature	5°C to 35°C
Humidity technical room	Max: 70%
Room ventilation (in and out)	
Material	Other functioning parts: PVC or PE Gaskets: EPDM, Viton

3.5 Transport / storage

Please check the devices immediately upon receipt for potential transport damage.



ATTENTION!

The device may be damaged by frost or high temperatures. Avoid exposure to frost during transport and storage!

Do not store systems and devices next to objects with strong heat emission or in direct sunlight. The device may only be transported and stored in its original packaging. Please ensure careful handling.

Storage of chemicals

DANGER!

Please comply with the chemicals manufacturer's safety data sheets!



In addition, the **locally applicable regulations** regarding the storage of chemicals must be observed. In Germany, for example: TRGS 510

4 Installation

4.1 Select the installation site

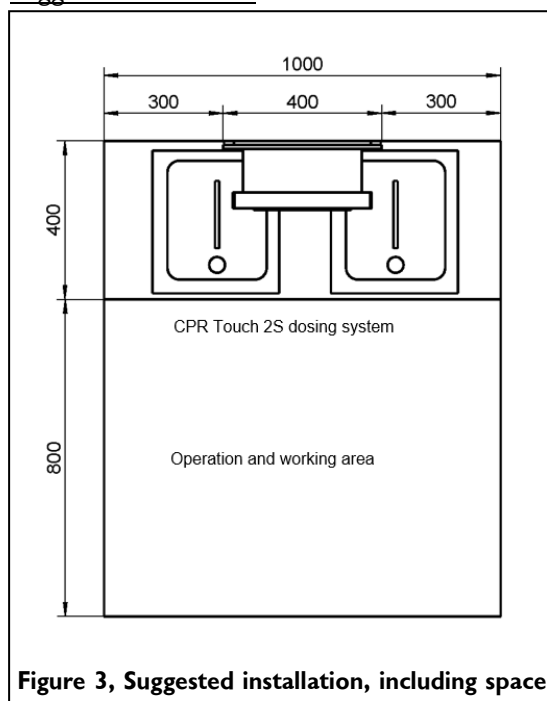
The following should be observed in regard to the installation site:

1. A freely accessible installation site should be selected to facilitate operations and subsequent maintenance tasks.
2. Observe the temperature specifications for the surrounding air and medium in accordance with *Chapter 3.4 Technical Data*. No flammable vapours, dust or gases may be present in the immediate vicinity of the device.
3. The device must not be exposed to the elements. It may not be installed outdoors. The system must be protected from frost and direct sunlight.
4. An electricity grid connection must be available. If online functions are used, an Internet connection will also be required.
5. The operating room must not be used as a recreational space. (max. 2 hours per day), consult the locally applicable accident prevention regulations (Germany BGR-GUV-R 108).
6. It must comply with the accident prevention regulations and should not be accessible to unauthorised persons. A separate storage space must be available for the chemicals.
7. Collecting tubs must be available for use with the chemical canisters.
8. It must be possible to vent and aerate technical areas so that hazardous substances do not occur in health-hazardous concentrations (from accident prevention regulations BGR-GUV-R 108).

4.2 Installation instructions / installation suggestion

- Unpack the device
- Attach warning and notice signs in accordance with the locally applicable accident prevention regulations (Germany: BGR-GUV-R 108).

Suggested installation



Ensure that there is sufficient clearance for operating and servicing the device!

Figure 3, Suggested installation, including space

4.3 Mechanical installation

The dosing system is delivered pre-assembled on the mounting plate. Mount the device on the wall in the technical room using 4 screws. The selected installation height must ensure that the display is located at eye level. Measure the four drill holes on the mounting plate and mark their location on the wall. Use dowels and screws appropriate for the type of masonry. Place the dosing canister and the corresponding collecting container under the device.



Pay attention to the positioning of the container,
 → pH Value control chemical (red) on the left and
 → disinfectant chemical (yellow) on the right.

4.4 Hydraulic installation

Integration into the water circulation:

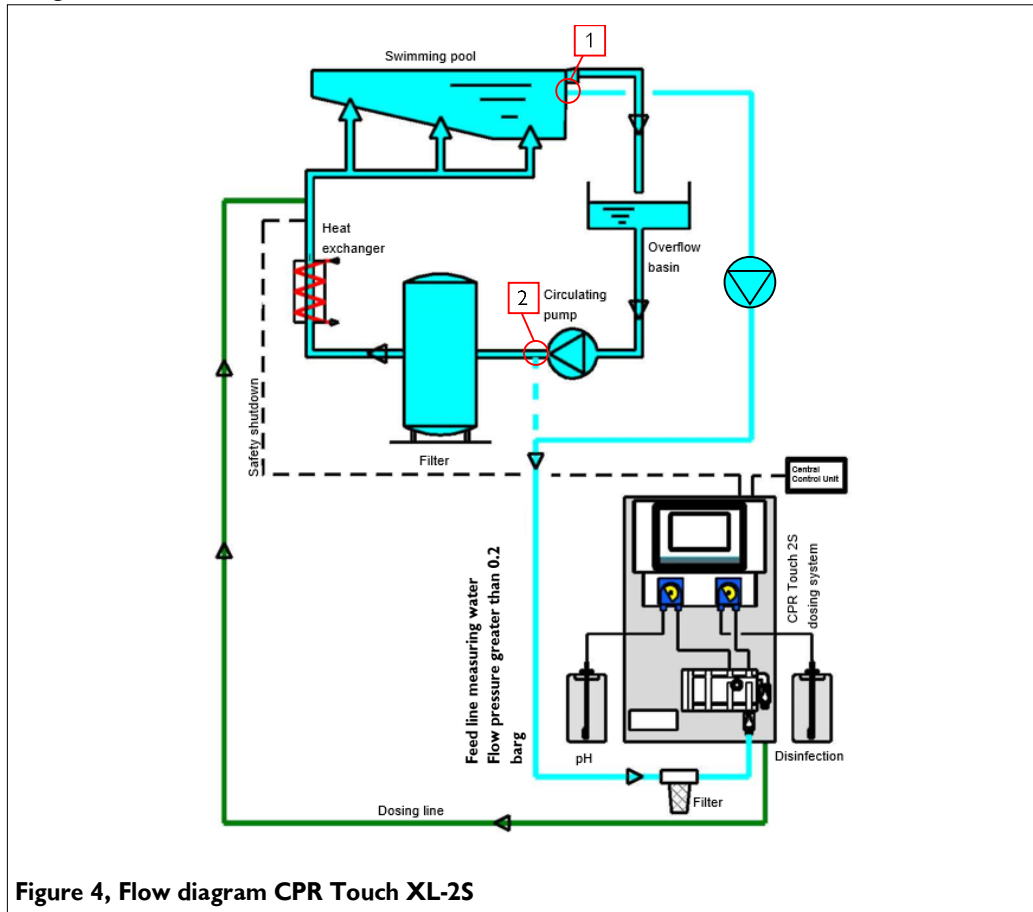


Figure 4, Flow diagram CPR Touch XL-2S



ATTENTION!

Before beginning any connection works, ensure that all of the ball valves on the measuring cell block are closed.

Flow

Only a proper basin flow can achieve a satisfactory control of the auxiliary hygiene parameters, i.e., free chlorine, pH value and redox voltage. The dosed chemicals must reach all areas of the basin within a short time. Even under stress, the concentrations measured in different areas of the basin must be approximately the same.

Measuring water withdrawal

Choosing the right measuring water withdrawal point is crucial for the effectiveness of the measuring and control technology. If possible, the measuring water should be identical to the basin water; it should be possible to detect changes to the water quality in the basin as quickly as possible using measuring technology. This is the only way to ensure a quick compensation of changes in the basin water quality by means of additional chemical dosing. The optimal withdrawal point can be located by measuring the chlorine concentration at different points (e.g., downstream of the circulation pumps, mixed water, etc.) and comparison with the values from the basin water in various operating conditions.



ATTENTION!

No chemicals may be dosed upstream of the measuring water withdrawal point. This would distort the measuring results.

If the basin water is conducted through an overflow gutter and a compensation pool (splash water pool), also used for the freshwater feed-in, only sampling the measuring water directly from the swimming pool basin will lead to satisfactory measuring and control results.

In new systems, measuring water must be withdrawn directly from the basin, in accordance with DIN 19643!

If there are any existing connections, ensure that these are not blocked. The pipes should be kept as short as possible.

Ensure that the connection sleeves for the water removal and the dosing point are completely open.

There are 2 options for the water withdrawal point:

Option 1: (see Figure 4) Swimming pool water directly from the basin

- Water removal at least 30 cm below the upper edge of the water.
Transporting the measuring water to the CPR Touch by means of the measuring water pump.

Option 2: (see Figure 4) Swimming pool water upstream of the pool filter

- Water removal between circulation pump and filter, prior to chemical dosing (flocculation, activated carbon). The differential pressure between the measuring water withdrawal and the return must be at least 0.2 bar.
- If the basin water is conducted through an overflow gutter and a compensation pool (splash water), which is potentially also used for the freshwater feed-in, only the withdrawal of the measuring water directly from the basin will lead to satisfactory measuring and control results; i.e., select option 1.
- Connect the measuring water inlet (*Pos 12*) of the CPR TOUCH XL to the water withdrawal point.

Measuring water recirculation (injection point)

Since the chemicals are mixed in with the measuring water, the injection point for the measuring water recirculation must be installed in the direction of flow downstream of the heat exchanger in order to prevent corrosion! Install the dosing line from the dosing device to the injection point.

Connect the measuring water recirculation (*Pos 13*) of the CPR TOUCH XL to the water recirculation point.

Prefilter (optional)

It may not be possible for the pool operator to notice a contaminated prefilter underneath the design cover. For this reason, the prefilter must be installed in the measuring water inlet line, at an easily accessible location. Depending on the local conditions, the prefilter can be installed directly at the device or at any other good installation site along the pipe. This has the advantage of being able to select a convenient access point for the pool operator.

4.5 Electrical installation



DANGER DUE TO ELECTRICAL VOLTAGE!

The electrical installation must only be carried out by qualified electrical technicians! Before any electrical work is carried out, the power supply must be switched off and secured against being reactivated!

Electrical connection

Open and close the housing

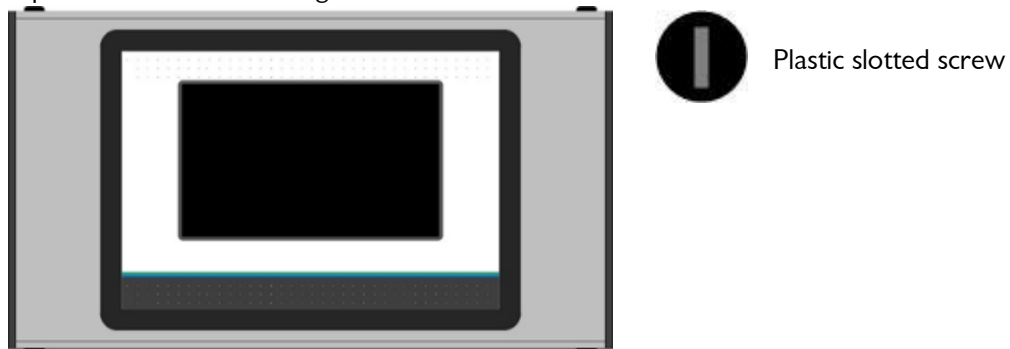


Figure 5, Control unit casing

Depending on the type of device, the display lid can be swivelled to the left or right for installation and maintenance work.

- The locking axle must be removed for rotating. The locking axle is identified by the plastic slotted screws on the top and bottom of both sides.
- The other side is equipped with two expanding rivets as pivot bearings.

The device must be supplied with continuous voltage, i.e., the voltage supply must not be locked with the filter system. **A digital input is available for interlocking the dosing with the swimming pool's filter system.**

For electrical installation, see also the terminal diagrams in the control unit's terminal casing or in the OI for CPR Touch XL measuring and control unit, in *Chapter 9.2*.

Signals to and from outside, see wiring diagrams



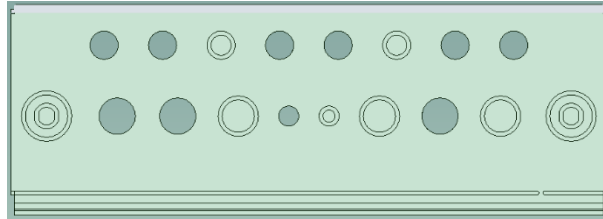
ATTENTION!

**External control of the inputs must be carried out in isolation.
The maximum contact current capacity of the relay contacts must be observed.**

The power supply for the dosing device must always be ensured.

The external control inputs and outputs (shut-down in the event of fault, disinfectant dosing during backwashing, etc.) must be clamped to the clamping connectors of the baseplate in the controller casing. Please do not use any fixed wire conductors.

Insert lines



The casing comes with several factory-made free screw connections. Several push-outs for metric screwed cable glands are available for additional insertions.

The two external screw connections with M25 are intended for the

insertion of a preassembled interface cable with RJ45 plug.



ATTENTION!

Please pay attention to the spatial separation between energy and signal lines when inserting additional lines. The crossing of energy and signal lines must be avoided!

Upon completion of the work, the casing must be properly closed again!

The device is equipped with a temperature control. This temperature control can be used to regulate the basin water temperature. If the basin is heated by means of a flow-through heat exchanger, it must be ensured that the associated heating circuit pump can only be activated when the filter system is in operation and that the temperature sensor is installed using an immersion sleeve in the flow direction after the heat exchanger.

Please remember that the regulation of the basin temperature can only be guaranteed if the filter operation times are set to an appropriate duration.

If the pool is being operated with an overflow gutter and a splash water tank, into which freshwater is also allowed to enter, marked differences in the water quality must be expected. In order to ensure perfect control quality in this case, it is recommended that the measuring water is withdrawn directly from the basin, using a separate measuring water pump.

5 Commissioning

5.1 Commissioning - remarks



ATTENTION!

This chapter must also be observed every time recommissioning occurs after an operating pause.

The work described here may only be carried out by trained specialist personnel from a specialist company. Prior to commissioning, the installed systems must be checked for proper installation and leaks.

Please use the commissioning protocol from *Chapter 9.3*, for commissioning. The device is delivered with defined factory settings. You can find the setting values in the operation data sheet in *Chapter 9.4*.

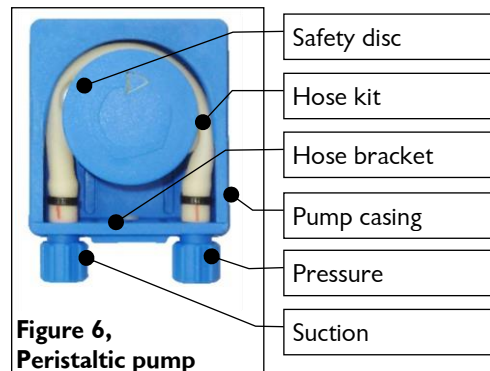
5.2 Commissioning

Before starting the commissioning process, ensure that the ball valves are connected to the measuring cell block (7) of the control unit.

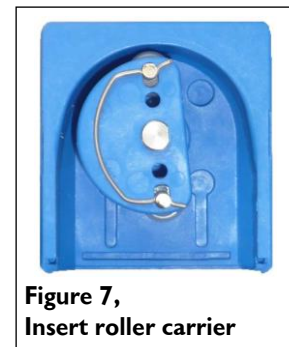
5.2.1 Installing peristaltic pumps, roller carriers

The description applies to both peristaltic pumps of the CPR TOUCH XL.

1. Remove the clipped-in, transparent pump cover and the blue safety disc. Pull the hose bracket forwards out of the guide in the casing.



2. Push the blue roller carrier provided with the delivery onto the axle.



3. Insert the hose bracket into the guides of the casing until it firmly snaps into place.



Figure 8,
Insert the hose bracket

4. Turn the roller carrier counter-clockwise while carefully pushing the hose inside the casing until the entire hose is contained in the casing.



Figure 9,
Turn the roller carrier

Now attach the safety disc (with red dot for pH dosing, with yellow dot for disinfectant dosing). Next, attach the transparent pump cover. This completes the installation of the roller carrier.

For dismantling the roller carrier and the hose bracket, please proceed in the reverse sequence.

5.2.2 Preparing pH control and disinfectant dosing for operation



PROTECTIVE CLOTHING!

Personal safety equipment must be put on before starting work with chemicals: Protective gloves, apron, face protection, boots.

The specifications for each chemical listed in the safety data sheets must be observed.

Connect dosing canister



CAUTION!

The chemicals and the suction lances must not be interchanged! Pay attention to the colour coding!

Components marked with red must be used for pH dosing.

Components marked with yellow must be used for disinfectant dosing.

Do not use any hydrochloric acid as this diffuses through the dosing hose and corrodes the dosing motor. We recommend consultation with the manufacturer.

Toxic fumes may occur when handling chemicals. Do not inhale any fumes.

1. Unscrew the screw cap with the suction lance from the empty dosing canister, put the suction lance in the collecting tub, and close the empty canister immediately using the original screw cap.
2. Lift the empty canister out of the collecting basin.
3. Put the full dosing canister into the collecting tub. Pay attention to the colour coding!
4. Unscrew the screw cap from the full dosing canister, immediately insert the suction lance into the canister and close it securely.
5. Store the original screw cap of the dosing canister until the next time the canister is replaced.

Plug the safety plug in a corresponding socket and turn on the device at the main switch.



Tip!

This concludes the commissioning of the dosing unit. For further commissioning, and the operation and setting of the control unit, continue reading the Operating Instructions Part 2, “Measuring and Control unit *CPR-Touch XL*” No. “*OI MR 001*” in Chapter 5 and Chapter 6.

6 Operation / service

The nationally applicable accident prevention regulations in Germany: Operation of swimming pools BGR/GUV-R 108 must be observed.

6.1 General

For operating and setting the dosing device, continue reading the Operating Instructions Part 2, “Measuring and Control Unit CPR Touch XL” No. OI MR 001 in Chapter 6.

6.2 Replenish consumables



CAUTION!

The safety data sheets for each chemical must be observed.

- Refilling pH control or disinfectant
For replacing the pH control or disinfectant canister, see *Chapter 5.2.2, “Connecting Dosing Canister”*.

7 Maintenance, care, faults

7.1 Device maintenance

We recommend that you assign a specialist firm to carry out regular maintenance.



Tip!

The maintenance work required for trouble-free operation is listed in the maintenance protocol in *Chapter 9.5*.

For opening the control housing, see *Chapter 4.5*.

7.1.1 Clean the dirt filter

A clean prefilter is important for proper device function. If the prefilter is contaminated, the pressure will drop.

When working on lines that carry water, always close the measuring water intake and recirculation.

For cleaning, unscrew the filter hood on the filter. Pull out the filter insert. Clean the filter hood and the filter insert under running water. Reassemble the filter in the reverse order.

7.1.2 Changing the dosing hose of the dosing pump

Additional procedure see *Chapter 5.2.1, Installing peristaltic pumps*, roller carriers

7.2 Regular water check

See: OI “CPR-Touch XL Measuring and Control Unit”, No.: OI MR 001, in *Chapter 7.2*.

7.3 Fault removal



Tip!

Faults are indicated in the display in the IN list by the appropriate symbol.



**See: OI “CPR-Touch XL Measuring and Control Unit”,
No.: OI MR 001, in *Chapter 7.3*.**

8 Decommissioning – Storage – Disposal

8.1 General

In the event of decommissioning or risk of frost, the devices must be emptied completely and protected against frost!

8.2 Decommissioning of the CPR TOUCH XL dosing system

1. Remove the suction lances from the dosing canisters and place them in a bucket filled with clean water. Close the dosing canister.
2. Allow the system to run for another minute for rinsing and cleaning. This means that you carry out the “Output test” test function  2x.
3. Stop the dosing via the  button.
4. Remove the roller carrier from the peristaltic pumps in order to relieve the dosing hose.
5. If there is a risk of frost, drain all of the water-conveying parts, and in particular the pumps.
6. If condensation moisture can be expected in the storage space, the device must be supplied with continuous voltage. Otherwise, deactivate the dosing device at the main switch.



ATTENTION!

When recommissioning, it is essential that the instructions in the “Commissioning” chapter are observed and the points contained in the commissioning protocol are implemented.

8.3 Disposal of used parts and operating materials



Thoroughly clean any removed, contaminated parts and dispose of or recycle them in accordance with the regulations applicable at the operating location. Pay attention to the relevant instructions on the packaging for the operating materials. If you need further information, please contact your local waste disposal office. If this is not possible, dispose of the components/materials as hazardous waste.

9 Documents

9.1 Declaration of conformity

WDT Werner Dosiertechnik GmbH & Co. KG
 Hettlinger Straße 17 | D-86637 Wertingen
 Tel. 0049 8272 98697-0 | Fax 0049 8272 98697-19
 info@werner-dosiertechnik.de | www.werner-dosiertechnik.de



EG-Konformitätserklärung EC declaration of conformity Déclaration de conformité UE

im Sinne der EG-Maschinenrichtlinie 2006/42/EG, Anhang II 1.A
 as defined in the ECMachinery Directive 2006/42 / EC, Annex II, Part 1A
 selon la directive européenne machines 2006/42 / CE, annexe II 1.A

Hersteller WDT - Werner Dosiertechnik GmbH & Co. KG
Manufacturer Hettlinger Str. 17
Fabricant 86637 Wertingen-Geratshofen

Beschreibung und Identifikation des Produktes:
Description and identification of the product:
Description et identification du produit :

Typenbezeichnung:	Art:
CPR Touch XL-2S-V2, 2 Pumpen für Chlor und pH-Senker; CPR Touch XL-1S-V2, 1 Pumpe für Chlor; CPR Touch XL-1S-V2, 1 Pumpe für pH-Senker; CPR Touch XL-1S-V2, 1 Pumpe für pH-Senker, mit Elektrolyseausgang; CPR Touch XL-0S-V2, ohne Pumpen; Poolklar Touch XL V3, Poolklar Touch Basic, 2 Pumpen für Chlor und pH-Senker	Maschine

Funktion: Das System dient zur Messung und Regelung von freiem Chlor, pH und Redox für Schwimmbadwasser.
Function: The system is intended for the autocontrol of free chlorine, pH and ORP for swimming pool water.
Fonction: Le système est utilisé pour l'autocontrol de chlore libre, pH et redox pour les piscines.

Es wird ausdrücklich erklärt, dass das Produkt allen einschlägigen Bestimmungen der folgenden EG-Richtlinien entspricht:
It is expressly stated that the product complies with all relevant provisions of the following EC directives
Il est explicitement dit que le produit est conforme à toutes les dispositions pertinentes des directives CE suivantes :

2006/42/EG RICHTLINIE 2006/42/EG DES EUROPÄISCHEN PARLAMENTS UND DES RATES vom 17. Mai 2006 über Maschinen und zur Änderung der Richtlinie 95/16/EG (Neufassung)

Die folgenden harmonisierten Normen nach Artikel 7 (2) wurden angewandt:
The following harmonized standards as defined in Article 7 (2) were applied:
Les normes harmonisées suivantes selon l'article 7 (2) ont été appliquées :

- EN ISO 12100:2010 Sicherheit von Maschinen - Allgemeine Gestaltungsleitsätze - Risikobeurteilung und Risikominderung
- EN 60204-1:2018 Sicherheit von Maschinen – Elektrische Ausrüstung von Maschinen – Teil 1: Allgemeine Anforderungen
- EN ISO 14120:2015 Anforderungen an Gestaltung und Bau von feststehenden und beweglich trennenden Schutzeinrichtungen

Die in der Gemeinschaft ansässige Person, die für die Zusammenstellung der technischen Unterlagen bevollmächtigt ist:
The designated person who is authorized to draw up the technical documentation:
La personne établie dans la communauté qui est autorisée à constituer le dossier technique:

Name: Werner Dosiertechnik GmbH & Co KG
Straße/Nr.: Hettlinger Straße 17
PLZ Stadt: 86637 Wertingen



Wertingen, 27.10.2021

Ort/City/Place, Datum/Date

Unterschrift/signature Jochen Rieger, Director



9.2 Wiring diagrams

The wiring diagrams for the standard version of the device may be found in the Operating Instructions Part 2 “CPR-Touch XL Measuring and Control Unit”, No.: OI MR 001, in *Chapter 9.2*.

The circuit diagrams may also be found in the device’s terminal box.

9.3 Commissioning protocol

The commissioning protocol is located in the accompanying documentation.

Commissioning Protocol IP-032-EN

CPR Touch XL-2S



This protocol must be completed by the commissioning technician! Without a completed and signed commissioning protocol, all warranty claims become void!

Object: _____ Date: ____.

City, street, house number: _____

Device type: _____ Year of manufacture: _____ Serial number: _____

	Activity	Completed	Comment
1	<u>Measuring Cell Block (see OI Part 2 Measuring and Control Unit No.: MR 001)</u>		
1.1	Install the roller support for the hose pumps (Depending on the version)	<input type="checkbox"/>	
1.2	Insert the cleaning beads	<input type="checkbox"/>	
1.3	Install electrodes	<input type="checkbox"/>	
1.4	Set control parameters	<input type="checkbox"/>	
1.5	Open ball valve at measuring cell intake, set measuring cell flow	<input type="checkbox"/>	
2	<u>Dosing Technology Disinfection (Chlorine) (Option)</u>		
2.1	Check empty switch on suction lance: Indicator in display	<input type="checkbox"/>	
2.2	Connect suction lance to dosing canister (yellow)	<input type="checkbox"/>	
2.3	Check dosing pump: Program output test chlorine (disinfection)	<input type="checkbox"/>	
3	<u>Dosing Technology pH Value (Acid) (Option)</u>		
3.1	Check empty switch on suction lance: Indicator in display	<input type="checkbox"/>	
3.2	Connect suction lance to dosing canister (red)	<input type="checkbox"/>	
3.3	Check dosing pump: Program output test pH	<input type="checkbox"/>	
4	<u>Other</u>		
4.1	Clean dosing device with a damp cloth	<input type="checkbox"/>	
4.2	Discuss and hand over operating instructions	<input type="checkbox"/>	

Additional remarks:

Commissioning and instruction carried out by: _____

Instructed persons: _____

Signature of commissioner: _____

Operator's counter-signature: _____

9.4 Operation data sheet

See Operating Instructions Part 2, “CPR-Touch XL Measuring and Control Unit”, No.: OI MR 001, in Chapter 9.4.

9.5 Maintenance protocol

The maintenance protocol is located in the accompanying documentation.

Maintenance Protocol WP-038-EN

CPR-Touch XL-2S



This protocol must be completed by the maintenance technician! Without a completed and signed maintenance protocol, we reserve the right to assert a warranty regulation.

Object: _____ Maintenance year: 20__

City, street, house number: _____

Device type: _____ Year of manufacture: _____ Serial number: _____

	Activity	Maintenance interval in months	Month												Comment / additional work
			1	2	3	4	5	6	7	8	9	10	11	12	
1	<u>Dosing Device Disinfection (Chlorine) (Option)</u>														
1.1	Check hose pump for moisture and corrosion	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.2	Check empty switch functioning	6						<input type="checkbox"/>						<input type="checkbox"/>	
1.3	Replace dosing hose	12												<input type="checkbox"/>	
2	<u>Dosing Device pH Value (Acid) (Option)</u>														
2.1	Check hose pump for moisture and corrosion	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.2	Check empty switch functioning	6						<input type="checkbox"/>						<input type="checkbox"/>	
2.3	Replace dosing hose	12												<input type="checkbox"/>	
3	<u>Control</u>	12												<input type="checkbox"/>	
3.1	Check all inputs	12												<input type="checkbox"/>	
3.2	Check all outputs	12												<input type="checkbox"/>	
3.3	Check and correct parameter settings	12												<input type="checkbox"/>	
4	<u>Measuring Cell Block</u>														
4.1	Check and clean the prefilter	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.2	Replace chlorine electrode, sealing set	12												<input type="checkbox"/>	
4.3	Replace redox electrode, sealing set	12												<input type="checkbox"/>	
4.4	Replace flow controller, maintenance set	12												<input type="checkbox"/>	

Additional remarks:

Maintenance performed and device functioning checked: _____ Date: _____
Signature

Operator's counter-signature: _____

9.6 Spare parts list, wear parts list

The spare parts listed below can be obtained from your specialist dealer. Please include the exact product designation and the device serial number with all orders.

Spare parts list

	Designation	Item no.
Dosing	Cover for pump casing Sa, transparent	14259
	Gear motor Sa 24 VDC 80 U/min	18769
	Pump casing Sa blue	14140
	Safety disc blue for roller carrier Sa	13633
	Dosing valve 3/8" - 4 x 1 - Si 9 1.5/14	24718
	Suction set 16/500 NF complete - yellow	12472
	Suction set 16/500 NF complete - red	12473
Accessories	Protection tub - chemical canister 30 litres	24300

Wear parts list

Wear parts are excluded from the 2-year warranty!

	Designation	Item no.
Dosing	Roller carrier Sa	13039
	Hose bracket Sa 3.2 x 1.6 hose break complete - green	16344
	Hose bracket Sa 1.6 x 1.6 hose break complete - black	16345
	Hose bracket Sa 0.8 x 1.6 hose break complete - blue	16346
	Union nut Sa - hose connection 4 x 1 mm	16379
	Clamp ring Sa PVDF 4 x 1 mm	16867
	Hose kit Sa 3.2 x 1.6 - Ph (2 pcs) - green	13413
	Hose kit Sa 1.6 x 1.6 - Ph (2 pcs) - black	13412
	Hose kit Sa 0.8 x 1.6 - Ph (2 pcs) - blue	13482
	Valve rubber 9 x 1.5 x 14 mm- 2 pcs in bag	18860

