

Software and settings

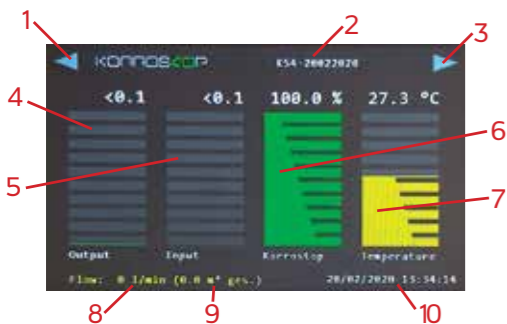
KORROSTOP4.0® offers extensive options and features. Only the most essential elements for daily operation are described here. Further information can be found at <https://github.com/easymetal/Korrostop4.0-EN/wiki>.

KORROSTOP4.0® can be used as delivered.

When it is delivered, only one user is created. This user's name is „korro“ and the password is „stop“. Please change the login credentials after commissioning.

Navigation and the most important screens

You can switch between the individual screens via **K5 touch screen** or **K7 rotary encoder**. Press the arrows ◀ or ▶ on the screen or turn the rotary encoder.

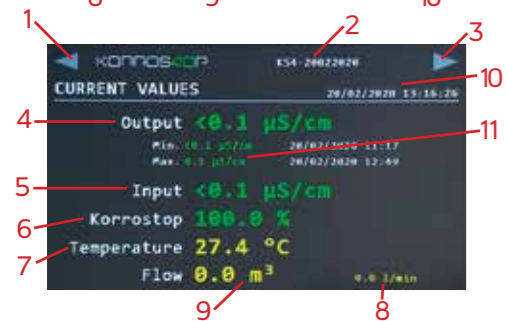


Analog and digital measured value display

Color display (traffic light system) of the measured values.

- 1 - Previous screen
- 2 - Device name (serial number based, can be changed at any time)
- 3 - Next screen
- 4 - Output conductance in $\mu\text{Siemens/cm}$
- 5 - Input conductance in $\mu\text{Siemens/cm}$
- 6 - Water quality produced by the E.KO IONISER® in percent
- 7 - Water temperature in the E.KO IONISER® (for 1501 the outgoing, for 1502 and 1503 the incoming water temperature)
- 8 - Water flow rate in L/min. Values are only displayed correctly when water is running!
- 9 - Total water that has flowed through the E.KO IONISER®
- 10 - Current date / current time
- 11 - Minimum and maximum values of the output conductance. Date and time of the min./max. measured values.

Minimum and maximum values of the output conductance. Date and time of the min./max. measured values. Depending on the ambient temperature, the displayed temperature value can be influenced.



History

Chronological sequence of conductance (input/output) and water temperature.

- 1 - Previous screen
- 2 - Device name (serial number based, can be changed at any time)
- 3 - Next screen
- 4 - Start and end date/time of the progress display
- 5 - Conductance input
- 6 - Conductance output
- 7 - Water temperature
- 8 - Temperature scale
- 9 - Conductance scale



About

Overview of the most important facts and settings.

- 1 - Previous screen
- 2 - Device name (serial number based, can be changed at any time)
- 3 - Next screen
- 4 - Version number and serial number
- 5 - Status on various components
- 6 - Which E.KO IONISER® is being used. The standard setting is 1501 and must be changed manually for 1502/1503 on the „CONFIGURATION“ screen in the „System“ section. In the future, recognition will be performed automatically.
- 7 - Display of QR code or address for the connection with a browser.
- 8 - Further information on the respective network connection
- 9 - The logged-in user is displayed (or the user can be logged out here). The user does not need to be logged to use the device as a measuring device. This is only the case for changing settings and for extended functionalities.
- 10 - Relevant errors are displayed here (date, time and text)



<https://www.easymetal.com>

KORROSTOP4.0®

Quick Start Manual

We thank you for choosing the KORROSTOP4.0® measuring device.

KORROSTOP4.0® is a reliable, accurate measuring device for measuring conductance, temperature and flow of deionized water after treatment with the E.KO IONISER® system.

The use of KORROSTOP4.0® on other deionizing systems is not permitted. If KORROSTOP4.0® is operated illicitly in conjunction with third-party products (deionizing systems), license fees will be incurred as subsequently charged costs which are only covered in conjunction with the E.KO IONISER® 1501/1502/1503.

The E.KO IONISER® with KORROSTOP4.0® is compatible with all EDM machines (regardless of manufacturer) and, with its many communication channels, offers full integration into your existing corporate IT system.

KORROSTOP4.0® can be connected to the following E.KO IONISER® systems:

E.KO IONISER® 1501: Cover color yellow. Application: EDM - Standard applications

E.KO IONISER® 1502: Cover color gray. Application: EDM - Carbide

E.KO IONISER® 1503: Cover color white. Application: Ultrapure water, process water, boiler feed water

The scope of delivery includes:



KORROSTOP4.0® Measuring Kit

- M1 - Measuring device KORROSTOP4.0®
- M2 - Plug-in power supply unit
- M3 - USB stick documentation and notes (in storage compartment K11)



CONNECT4 Connection Kit

- C1 - LT coupling 1/2" ET black
- C2 - LT plug 1/2" ET black
- C3 - LT coupling 1/2" grey for flushing (see E.KO IONISER® manual)
- C4 - LT plug 1/2" grey for flushing (see E.KO IONISER® manual)
- C5 - Angle 90° 1/2" IT x 1/2" ET (operation without KORROSTOP4.0®)
- C6 - Reducing ring ET x IT 1" x 1/2" (operation without KORROSTOP4.0®)
- C7 - Stepped grommet 3-step 1" x 25/20/13 2 pcs
- C8 - Union nut for stepped grommet 2 pcs.
- C9 - Hose clamp 3/4" 2 pcs. (to be used depending on hose thickness)
- C10 - Hose clamp 1/2" 2 pcs. (to be used depending on hose thickness)
- C11 - Flat gasket 1" white 4 pcs. 2 assembly, 2 reserve

Configuration of KORROSTOP4.0®

KORROSTOP4.0® provides a variety of configuration settings. You can select and (de)activate features and enter configuration data using virtual keyboards. You can find a comprehensive and continuously updated description on our Wiki pages at: <https://github.com/easymetal/Korrostop4.0-EN/wiki>.

The software is regularly adapted and enhanced. Updates can be obtained via the Internet or an SD card.

How do you find out about a new update?

- You can check this yourself via KORROSTOP4.0®.
- A sticker when you exchange an E.KO IONISER® indicates a new update.
- On the easymetal website at <https://www.easymetal.com> and at <https://github.com/easymetal/Korrostop4.0-EN>.
- Of course, your dealer will also be informed about new updates.

We strongly recommend that you always install the latest updates.



Structure of KORROSTOP4.0®

- K1 - Water connection 1
- K2 - Water connection 2
- K3 - 1/2" connection 1 including sealing ring (factory fitted)
- K4 - 1/2" connection 2 including sealing ring (factory fitted)
- K5 - Touch screen
- K6 - Handle
- K6.1 - Touch pen
- K7 - Rotary encoder
- K8 - Power connection
- K9 - Cover for extension plug
- K9.1 - Operation display
- K9.2 - Connection for extensions and automation PLC
- K9.3 - Network connector
- K9.4 - USB connection
- K9.5 - USB transfer indicator 1 (top - send)
- K9.6 - USB transfer indicator 2 (below - received)
- K10 - Cover for extended operating elements
- K10.1 - SD-card slot
- K10.2 - Reset button
- K10.3 - Button for service personnel
- K10.4 - Light emitting diode 1
- K10.5 - Light emitting diode 2
- K11 - Cover for storage compartment
- K11.1 - USB stick see M3 (documentation and notes)

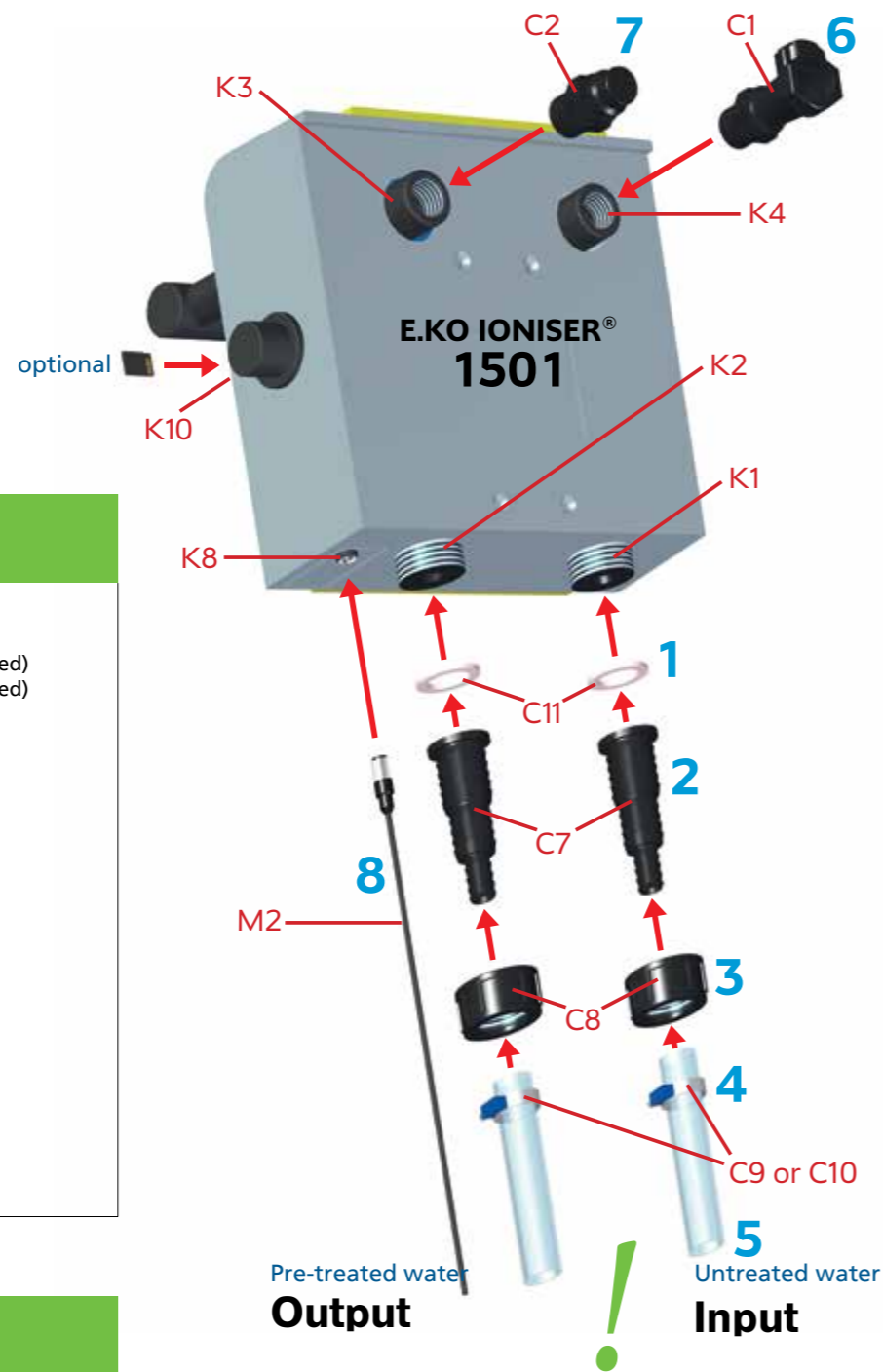
Physical specifications*

| | |
|-----------------------|----------------------------------|
| Dimensions (L/W/H) ** | 125x235x212 mm |
| Material | ABS, glass fiber reinforced *** |
| Storage temperature | 5°C to 70°C |
| Operating temperature | 5°C to 50°C |
| Air humidity **** | 10% to 90% relative air humidity |
| Max. measurable flow | 0 L/min to 40 L/min |
| Max. water pressure | 6 bar (Todo easymetal) |

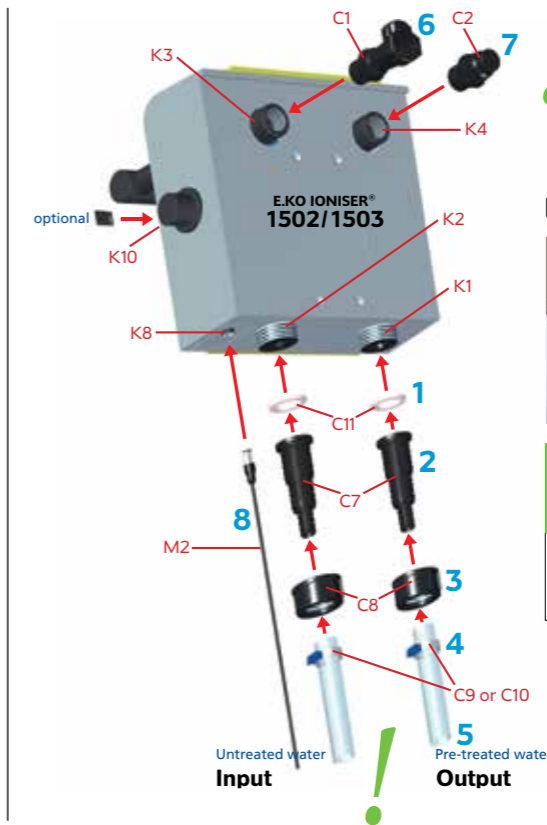
* Please note that the limiting factors are not defined by KORROSTOP4.0® but by your EDM machine and the E.KO IONISER® or its operating parameters!
 ** without connections
 *** various state-of-the-art materials were used for connections
 **** Storage and operation

Assembly of KORROSTOP4.0®

Note the different positions of the connections C1, C2 and the hose guides K1, K2 for E.KO IONISER® 1501 and E.KO IONISER® 1502/1503.



E.KO IONISER® 1501



E.KO IONISER® 1502/1503

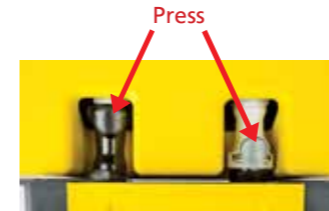


Setting 1502/1503

Screen: CONFIGURATION
Range: System

Removal of Korrostop4.0

To disconnect KORROSTOP4.0® from the E.KO IONISER®, press the two EASY quick couplings and simultaneously pull the M1 measuring device KORROSTOP4.0® away from the E.KO IONISER®. Never remove the two C7 3-stage step grommets before the EASY quick-disconnect couplings have been opened and the M1 measuring device KORROSTOP4.0® has been removed. (Water leakage due to flow)



Note

- The KORROSTOP4.0® measuring device is designed exclusively for operation in conjunction with an E.KO IONISER®. The operation of KORROSTOP4.0® with other deionizing systems is not permissible. Operating the KORROSTOP4.0® measuring device in conjunction with other products (deionizing systems) will render the warranty void.
- Observe all regulations and internal company rules when handling water and electricity!
- Water and power connections must always be made by professionals.
- All connections must be checked for leaks before operation. Pay particular attention to the seating of the sealing rings of K3 - 1/2" connection 1 and K4 - 1/2" connection 2.
- Network connections must be carried out by IT professionals to ensure the integrity of the network.
- Make sure that the measuring device is always dry.
- The socket for the M2 power supply unit must be installed so that no water comes into contact with the socket in the event of water leakage.
- Only the M2 power supply unit supplied with the measuring device may be used. Other makes do not work.
- If the housing of the M1 KORROSTOP4.0® measuring device is opened by untrained personnel, the warranty shall be rendered void.
- Network cable, USB cable and SD card are not included in the delivery.
- The M3 USB stick, as well as USB sticks in general, are not meant to be plugged into the M1 KORROSTOP4.0® measuring device. This can lead to unexpected errors.
- Route the cable from the M2 power supply unit and all hoses to the KORROSTOP4.0® M1 measuring device so that employees do not trip over them. The cable must not be installed together with other cables carrying live voltage.
- If you notice any malfunctions (e.g. water leakage, mechanical defects in the housing, etc.) do not continue to use KORROSTOP4.0® under any circumstances. You can continue to operate your machine with the components of the Connect connection kit until the KORROSTOP4.0® has been replaced.

Possible faults and causes

- K5 touch screen remains black: Check if the K9.1 - operating display is lit. If not, the measuring device has no current. Possible causes: The power outlet does not carry current (the voltage may not be within specification) or the M2 power supply unit is defective. If neither is the case, the measuring device is defective and must be replaced. Other possible causes: The M2 power supply unit of the M1 KORROSTOP4.0® measuring device was not plugged in properly. Insert the plug fully into the 'socket'.
- Water leakage from K1 water connection 1 or K2 water connection 2: the seal is not properly fitted or it is missing. The screw connection was not tightened firmly enough.
- Water leakage from K3 - 1/2" connection 1 or K4 - 1/2" connection 2: the seal is not fitted properly or it is missing. The screw connection was not tightened firmly enough. Screw joints should not be tightened with water pump pliers!

KORROSTOP4.0® Wiki
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Github KORROSTOP4.0®
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