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# KORROSTOP<sup>3</sup>

## INSTRUCTION MANUAL

KORROSTOP<sup>3</sup>® measurement device  
for the E.KO IONISER®



E.KO  
IONISER®



# INSTRUCTION MANUAL

## KORROSTOP<sup>3</sup>® measurement device for the E.KO IONISER®

### GENERAL

This display equipment helps to measure the water quality after treatment with the E.KO IONISER® system. Every second, several measurements are done, the average is calculated and shown on the display. On the measurer you now can read the temperature, the conductance and the KORROSTOP<sup>3</sup>® function in form of a graphical bar (see image).

If the conductance stays stable over a longer time, the display automatically switches off. By pushing the red button on the measurer the system will go from energy-saving mode to operating mode.

The delivered water quality from the E.KO IONISER® is constant over a very long time (about 90-95% of endurance) and the measurer mainly goes into energy-saving mode.

As soon as the optimal values can no longer be reached, the unit automatically switches to the active display mode and depicts the measured values on the display. Additionally, the background lighting will be activated.

Please use non-rechargeable batteries for an operating time of one year. Please check the batteries regularly for leaks. The system can also be used with accumulator.

It is also possible to equip the measurer with a permanent electrical power supply and an analog output (4-20 mA). Please contact your E.KO IONISER® distribution partner for additional information.

Electrical power supply: 2 x AA ( Mignon ) batteries á 1.5 V

Operating time: about 12 months with alkaline batteries

## HANDLING

During the start up of E.KO IONISER<sup>®</sup> incorrect measurements may occur. System is protected from splash water, which is especially important for the water measurements. Do not plunge into water or other fluids.

Do not expose to hard impact or blows.

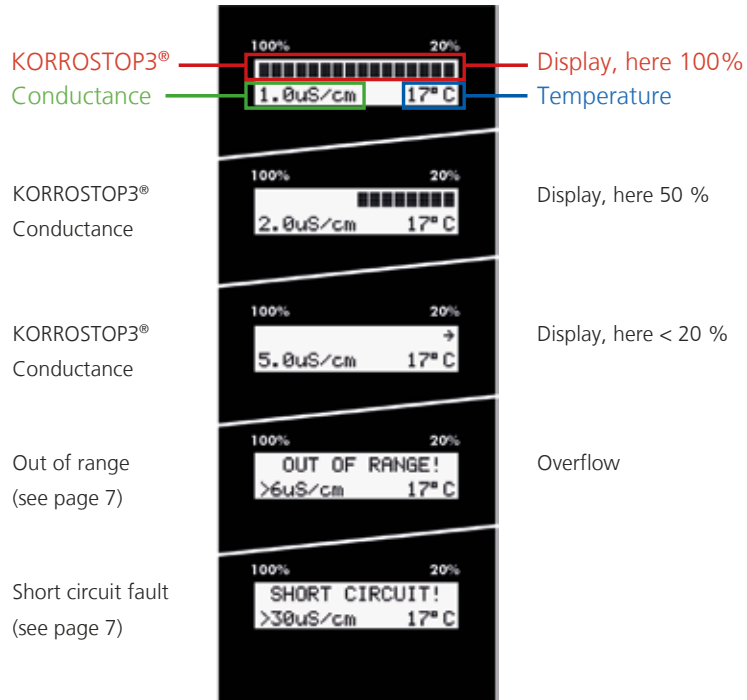
Permissible operating temperature: 5 – 50°C

# IMPORTANT INFORMATION

A correct measured value is only depicted during throughflow. Please note that the EDM stops flow once the correct conductivity value has been reached.

The KORROSTOP3® measurement device is only suitable in connection with the E.KO IONISER® as visualisation of the KORROSTOP3®. Use with other systems can lead to false measurements!

## DISPLAY VIEWS



### Out of range:

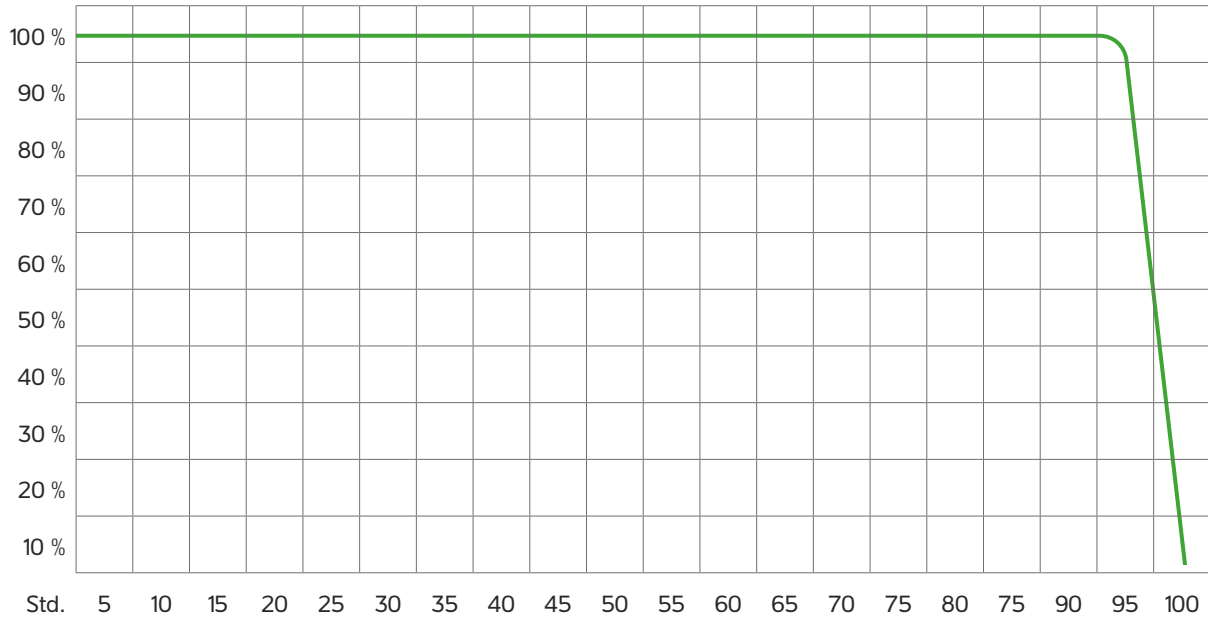
Outside of field is only shown by the measurer if the measurement is done by the internal sensor and the conductance overruns  $6 \mu\text{S}/\text{cm}^1$ . This information can only be shown during the „throughflow measurement mode“.

### Short circuit fault:

If measurement is done by the external sensor (hand-sensor) and the conductance is higher than  $30 \mu\text{S}/\text{cm}^1$ , the information „Short circuit fault“ („Kurzschluss“) is shown on the display.

This is not a short circuit fault in the measurer, but information that the measurement range from the external sensor has been exceeded.

## SWING-OUT BEHAVIOUR





This chart describes the swing-out behaviour of the KORROSTOP3® system of the E.KO IONISER®.

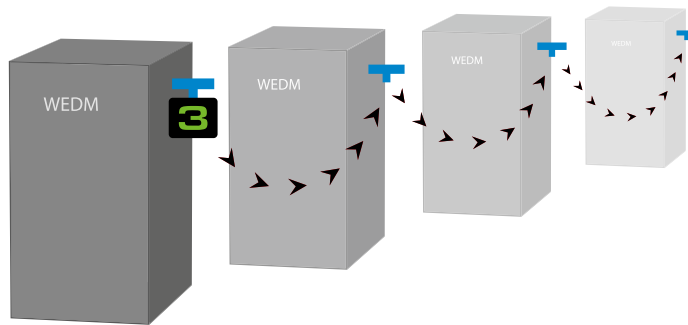
On the X-axis, the condition (water quality) as a percentage is presented (as on the measurement device) and on the Y-axis, the working hours (full load) are indicated.

One can clearly recognise the trend of the logarithmic function from approx 90% up to 20%. This means that the time between two indicator points on the measurement device is halved.

Starting at 60% there is much more oxygen in the process water, which increases the oxidation behaviour of the water. We recommend you replace the E.KO IONISER® not later than at 60% for critical application (e.g. carbide).

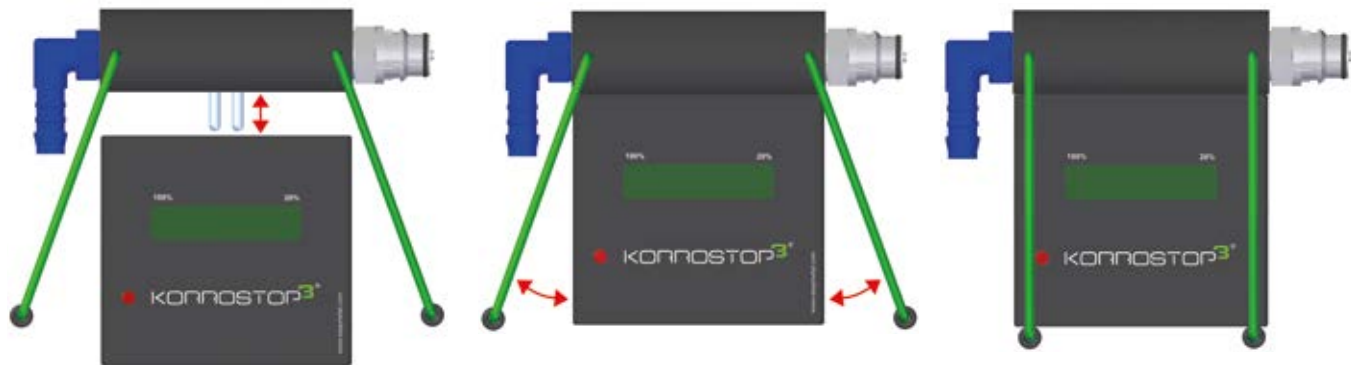
## MOBILE MEASUREMENT

With an additional docking station, you are able to measure with just one KORROSTOP3® tester on multiple wire erosion machines.



Graphical illustration.  
Mobile measurement at multiple wire eroding machines.

## DOCKING DESCRIPTION





**be clean.**  
*stay green*

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