
TREION™

Deionized Water Columns



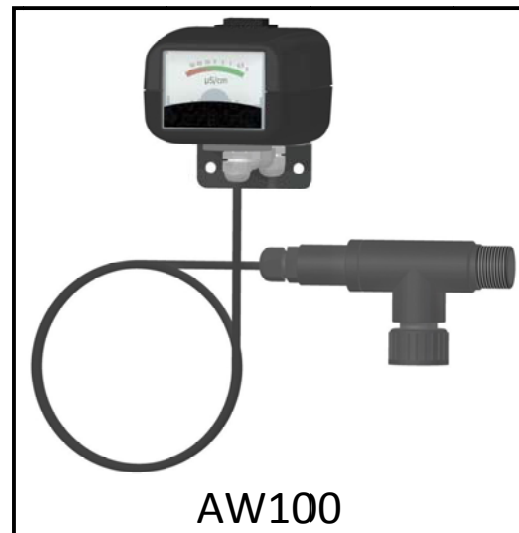
Operating instructions

For Conductivity Meters

AC/AW 100



AC100



AW100

Read these instructions intently prior to system set-up and start-up!



Application

The intended purpose of TREION™ conductivity meters is to monitor the quality of the pure water that is produced by mixed-bed ion exchange systems. The conductivity is an important parameter for the characterization of such water. It is a measure of the total concentration of ions in an aqueous solution. The more dissolved salts that are in a solution, the higher the conductivity.

Technical data

| Unit | AC 100 Cartridge version | AW 100 Wall mounting version |
|------------------------------|--------------------------------|---------------------------------|
| Measurement range | 0,1-50 $\mu\text{S}/\text{cm}$ | 0,1-50 $\mu\text{S}/\text{cm}$ |
| Power supply | 230V 50-60Hz | 230V 50-60Hz |
| Pressure | Max. 6 bar | Max. 6 bar |
| Dimensions in mm (W x D x H) | 93x123x170 | 93x125x96 |
| Connection | R3/4" | R3/4" |
| Order no. | 14160100 | 14160200 |

Safety precautions

1. Before you start to set-up the conductivity meter, it is necessary that you read through these instructions and observe the notes and safety measures.
2. Please also refer to the current operating instructions provided by the manufacturer of the mixed-bed water deionizer cartridge for which conductivity meter AC100 or AW 100 is to be used.
3. Please note that the manufacturer of these conductivity meters accepts no liability for damages resulting from improper operation of them and/or use of them for other than the intended purpose.
4. The CE-mark is invalidated when changes are made to the product.
5. The intended purpose of the conductivity meters is to measure the conductivity of pure water that is produced by an ion-exchanger. They are never to be used for monitoring the conductivity of other solutions or types of water.
6. The maximum temperature of the pure water that is fed to the conductivity meters is 35°C. Damages or leaks caused by water that is hotter than this maximum temperature are not covered by the guarantee. The 6 bar maximum pressure is not to be exceeded.
7. The installation location must be frost-free and have an ambient temperature that does not go below 2°C.
8. The installation area must have a floor drain. When this is not the case, a water watcher (article no.: 13012900) should be installed, otherwise the manufacturer is not liable for damages caused by emergent water.
9. Shut the water supply off for safety reasons when the system is not to be used over a longer time period, such as during weekends and holidays,.
10. Only the hoses supplied with the conductivity meter are to be used for connection of it.
11. An earthling-contact socket outlet is required for the electrical connection.
12. The guarantee is valid for 12 months.



Installation:

Conductivity meter AW 100

1. Mount the display unit on the wall near to the cartridge by means of the two holes in the mounting plate and the wall plugs and screws that are supplied. Select the mounting position so that it is possible to connect the 2 metre long measuring cell cable to the measuring cell T-piece on the cartridge.

CAUTION: Check that there are neither current leads nor water pipes in the area of the intended bore holes.

2. Screw the connecting nut of the measuring cell T-piece to the connector of your mixed-bed deionizer cartridge that is designated "outlet" or "pure water". It is essential to use the delivered gasket.
3. Connect one of the two connecting hoses supplied to the raw water connector of your cartridge and the on-site drinking water tap. Please refer to the guidelines of some cartridge manufacturers on the use of a dosing orifice to reduce the tap water flow rate for an appropriate assurance of the pure water quality.
4. Connect the free end of the second hose to the user. Connect the free end of the measuring cell cable of the mounted display unit to the measuring cell connector.
5. Plug the connecting plug in the 230V socket. The conductivity meter is now ready for use.



Installation:

Conductivity meter AC 100

1. Screw the connecting nut of conductivity meter AC 100 with the integrated measuring cell to the connector of your mixed-bed deionizer cartridge that is designated “outlet” or “pure water”. Please be sure to use the gasket that is supplied.
2. Connect one of the two connecting hoses that are supplied to the raw water connector of your cartridge and the on-site drinking water tap. Please refer to the guidelines of some cartridge manufacturers on the use of a dosing orifice to reduce the tap water flow rate for an appropriate assurance of the pure water quality.
3. Use the second hose to connect the free outlet of the conductivity meter to the user.
4. Plug the connecting plug in the 230V socket. The conductivity meter is now ready for use.



General information

1. The conductivity values that are shown by the conductivity meter are not relevant when no pure water is being fed to the user. True values are only shown when pure water is flowing through the measuring cell.
2. The mixed-bed ion exchange cartridge must be regenerated when the maximum conductivity that has been fixed for the particular application has been reached.

Note on the waste disposal of equipment

According to your state government requirements and the 2002/96 EC and 2006/66/EC directives, equipment that is to be scrapped can be brought to authorized collection points for recycling. Alternatively, it can be returned to us for proper recycling/waste disposal.

In case of return for repair, incorrect delivery or double delivery, please use the original cardboard box/packaging whenever possible. Send fall and knock protected.