

CONDUCTIVITY METER

AK115 Max - Conductivity, TDS, Salinity, and Resistivity Meter

The measurement of electrical conductivity is a fundamental parameter for assessing the concentration of dissolved ions and is widely used in water quality control, environmental monitoring and industrial processes. The AK115 Max is a portable instrument designed for reliable measurements in the field or laboratory. It operates over a wide conductivity range, allowing analysis from low mineralization waters to higher concentration solutions. It performs calibration at fixed or customizable points, offers an adjustable TDS conversion factor, and allows reading of conductivity, TDS, salinity, and resistivity. It uses a K=1.0 conductivity cell with an integrated temperature sensor, ensuring automatic temperature compensation and accurate correction of results. It also has memory for 100 records, backlight, and IP65 protection, making it suitable for processes that require reliable water quality monitoring.



Highlights and applications:

Internal memory: Up to 100 records.

TDS factor: Configurable from 0.40 to 0.80.

Measured parameters: Conductivity, TDS, salinity, and resistivity.

Conductivity cell: K=1.0 with integrated temperature sensor (AK1021).

Construction: IP65 protection, backlit display, 9V battery power supply.

Multipoint calibration: Fixed points at 84 µS/cm, 1413 µS/cm, 5.0 mS/cm, and 12.88 mS/cm, and customizable.

Applications: Water treatment, water and wastewater treatment plants, agriculture, aquaculture, chemical industries, and process control.



TECNICAL SPECIFICATIONS:

	Measuring range:	Resolution:	Accuracy:
Conductivity (EC):	0.0 to 19.99 µS/cm 20.0 to 199.9 µS/cm 200 to 1999 µS/cm 2.00 to 19.99 mS/cm	0.01 µS/cm 0.1 µS/cm 1 µS/cm 0.01 mS/cm	± (2%FS + 1 dígit)
TDS:	0.00 to 9.99 ppm 10.0 to 99.9 ppm 100 to 999 ppm 1.00 to 10.00 ppt	0.01 ppm 0.1 ppm 1 ppm 0.01 ppt 0.1 ppt	± (2%FS + 1 dígit)
Salinity:	0.00 to 12.00 ppt	0.01 ppt	± (2%FS + 1 dígit)
Resistivity:	0.0 to 100.0 MΩ	0.1 MΩ	± (2%FS + 1 dígit)
K constant (configurable):		0.05 to 0.20 0.80 to 1.20 9.80 to 10.20	
TDS factor (configurable):		0.40 to 0.80 (adjustable)	
Temperature compensation (meter):		Automatic: -5 to 100°C Manual: -5 to 100°C	
Temperature compensation (cell):		0 to 80°C	
Memory:		100 records	
Backlight:		On/Off	
Automatic shutdown:		10 minutes	
Reading freeze (HOLD):		Manual	
Operating temperature of the cell:		0 to 50°C	
Operating humidity:		10 to 90 %UR (non condensing)	
Degree of protection:		IP65	
Power:		9Vdc(1 battery 9V)	
Dimensions (LxAxP):		83x175x34mm	
Weight:		250g	

Included items:

- Conductivity cell with temperature sensor K=1.0 - AK1021
- Solution sample 1413µS/cm
- Solution sample 12.88mS/cm
- Storage and transport case

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INSTRUMENT
Years warranty against
manufacturing defects
(Includes legal warranty)

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CELL
Months against
manufacturing defects
(Includes legal warranty)