



4 rings, stainless steel probe

The meter comes with an AD76309 EC/TDS/Temperature probe with built-in temperature sensor



### AD331

## Professional Waterproof Conductivity-Temperature Portable Meter with GLP

AD331 is a waterproof portable meter that reads Conductivity in 5 ranges and temperature. The auto ranging feature of the EC range automatically sets the instrument to the scale with the highest resolution. Measurements are compensated for temperature effect automatically (ATC) or manually (MTC). It is also possible to disable the temperature compensation feature to measure the actual conductivity. The temperature coefficient is user selectable. This instrument also features a measurement stability indicator, GLP capability, and a user selectable ID code to uniquely identify the instrument.

AD331	
Range	EC 0.00 to 19.99 $\mu\text{S}/\text{cm}$   20.0 to 199.9 $\mu\text{S}/\text{cm}$   200 to 1999 $\mu\text{S}/\text{cm}$ 2.00 to 19.99 $\text{mS}/\text{cm}$   20.0 to 199.9 $\text{mS}/\text{cm}$
	Temp. -9.9 to 120.0 $^{\circ}\text{C}$
Resolution	EC 0.01 $\mu\text{S}/\text{cm}$   0.1 $\mu\text{S}/\text{cm}$   1 $\mu\text{S}/\text{cm}$ 0.01 $\text{mS}/\text{cm}$   0.1 $\text{mS}/\text{cm}$
	Temp. 0.1 $^{\circ}\text{C}$
Accuracy (at 25 $^{\circ}\text{C}/77^{\circ}\text{F}$ )	EC/TDS $\pm 1\%$ f.s.
	Temp. $\pm 0.5^{\circ}\text{C}$
Calibration	EC Offset 0.0 $\mu\text{S}/\text{cm}$ ; Slope: 1 point with 6 memorized standards (84.0, 1413 $\mu\text{S}/\text{cm}$ ; 5.00, 12.88, 80.0, 111.8 $\text{mS}/\text{cm}$ ) or one custom value
Temperature compensation	ATC/MTC, -9.9 to 120 $^{\circ}\text{C}$
Temperature coefficient	Selectable from 0.00 to 10.00% / $^{\circ}\text{C}$
Reference temperature	Selectable from 15.0 to 30.0 $^{\circ}\text{C}$
Probe (included)	AD76309 - Stainless steel, 4-ring EC/TDS/Temperature probe with DIN connector and 1 m cable
Memory	Log-on-demand: Up to 250 samples
GLP	Yes with time stamp
Hold function	Yes (Auto)
Low battery indication	Yes
Auto shutt-off	User selectable: 5 minutes or disabled
Battery Type / Life	4 x 1.5V AA batteries / Approx. 200 h of continuous use
Dimensions / Weight	188 x 96 x 70 mm / 460 g

AD331 is supplied with

AD76309 - EC/TDS/Temperature probe with built-in temperature sensor; AD70031 - 1413  $\mu\text{S}/\text{cm}$  calibration solutions in sachet (20 ml); AD70030 - 12.88  $\text{mS}/\text{cm}$  calibration solutions in sachet (20 ml); Wrist strap; Batteries (4 x 1.5V, AA alkaline); Instruction manual

### Accessories

Find an accessory guide for portable meters on page 13

### AD330 - AD332

## Professional Waterproof Conductivity-TDS-Temperature Portable Meter with GLP & RS232 interface

AD330 and AD332 are waterproof portable meters that read TDS and Conductivity in 5 ranges and temperature.

The auto ranging feature of the EC and TDS ranges automatically sets the instrument to the scale with the highest resolution. Measurements are compensated for temperature effect automatically (ATC) or manually (MTC). It is also possible to disable the temperature compensation feature to measure the actual conductivity.

The temperature coefficient is user selectable. These instruments also features a measurement stability indicator, GLP capability, and a user selectable ID code to uniquely identify the instrument. Moreover, AD332 includes PC interface and printing function.

AD330 - AD332	
Range	EC 0.00 to 19.99 $\mu\text{S}/\text{cm}$   20.0 to 199.9 $\mu\text{S}/\text{cm}$   200 to 1999 $\mu\text{S}/\text{cm}$ 2.00 to 19.99 $\text{mS}/\text{cm}$   20.0 to 199.9 $\text{mS}/\text{cm}$
	TDS 0.00 to 9.99 ppm   10.0 to 99.9 ppm   100 to 999 ppm 1.00 to 9.99 ppt   10.0 to 99.9 ppt
	Temp. -9.9 to 120.0 $^{\circ}\text{C}$
Resolution	EC 0.01 $\mu\text{S}/\text{cm}$   0.1 $\mu\text{S}/\text{cm}$   1 $\mu\text{S}/\text{cm}$ 0.01 $\text{mS}/\text{cm}$   0.1 $\text{mS}/\text{cm}$
	TDS 0.01 ppm   0.1 ppm   1 ppm 0.01 ppt   0.1 ppt
	Temp. 0.1 $^{\circ}\text{C}$
Accuracy (at 25 $^{\circ}\text{C}/77^{\circ}\text{F}$ )	EC/TDS $\pm 1\%$ f.s.
	Temp. $\pm 0.5^{\circ}\text{C}$
Calibration	EC Offset: 0.0 $\mu\text{S}/\text{cm}$ ; Slope: 1 point with 6 memorized standards (84.0, 1413 $\mu\text{S}/\text{cm}$ ; 5.00, 12.88, 80.0, 111.8 $\text{mS}/\text{cm}$ )
Temperature compensation	ATC/MTC, -9.9 to 120 $^{\circ}\text{C}$
Temperature coefficient	Selectable from 0.00 to 10.00% / $^{\circ}\text{C}$
Reference temperature	Selectable from 15.0 to 30.0 $^{\circ}\text{C}$
TDS factor	User selectable from 0.40 to 1.00 (default value: 0.50)
Probe (included)	AD76309 - Stainless steel, 4-ring EC/TDS/Temperature probe with DIN connector and 1 m cable
Memory	Log-on-demand: Up to 250 samples [AD332]
GLP	Yes with time stamp
Printer	External through RS232 [AD332]
Hold function	Yes (Auto)
Low battery indication	Yes
Auto shutt-off	User selectable: 5 minutes or disabled
PC Interface	RS232 for PC software and External Printer [AD332]
Battery Type / Life	4 x 1.5V AA batteries / Approx. 200 h of continuous use
Dimensions / Weight	188 x 96 x 70 mm / 460 g



- AD332 allows connection to an external serial printer with the following printer specifications: at least 16 characters/line, baud rate 9600 and 9-pin RS232 input

AD330 and AD332 are supplied with

AD76309 - EC/TDS/Temperature probe with built-in temperature sensor; AD70031 - 1413  $\mu\text{S}/\text{cm}$  calibration solutions in sachet (20 ml); AD70030 - 12.88  $\text{mS}/\text{cm}$  calibration solutions in sachet (20 ml); Wrist strap; Batteries (4 x 1.5V, AA alkaline); Instruction manual; AD9551 - Serial communication cable [AD332]

### Accessories

Find an accessory guide for portable meters on page 13