



PRODUCT CATALOG

Consistency, Reliability, Durability and Performance

PROFESSIONAL
INSTRUMENTS
& LAB ANALYSIS

- pH**
- ISE**
- ORP**
- EC**
- TDS**
- DO**
- TEMP**

PROFESSIONAL
INSTRUMENTS FOR WATER
& LAB ANALYSIS

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INSTRUMENTS FOR
WATER & LAB ANALYSIS

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& LAB ANALYSIS

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Standard Pocket Testers

AD100-AD101

Standard Pocket pH Testers

Microprocessor based pH testers, assure to produce fast and stable readings.

They come with features such as automatic temperature compensation, low battery indication, automatic shut-off after 8 minutes and others.

They are also incorporated with easy push buttons for automatic calibration and splash-proof keypad that prevents water infiltration.



Calibrate directly in buffer solution sachets

Calibration can be performed right in buffer solution sachets for the most accurate readings.



Easy battery replacement

An easily removable cover provides access to the replaceable battery.



Protective cap

Protect the pH bulb from external environmental effects when the meter is non-use.



1 or 2 point automatic calibration

These testers are feature automatic 1 or 2 point calibration to a known buffer.

Automatic temperature compensation

Readings are automatically compensated for variations in temperature.



AD100 and AD101 are supplied with

AD70004 - pH4 calibration solutions in sachet (20 ml); **AD70007** - pH7 calibration solutions in sachet (20 ml); Protective cap; Batteries (4 x 1.5V, button types); Instruction manual

Accessories

AD70004P - pH 4.01 calibration solution (20 ml sachet, 25 pcs.)
AD70007P - pH 7.01 calibration solution (20 ml sachet, 25 pcs.)
AD70010P - pH 10.01 calibration solution (20 ml sachet, 25 pcs.)
AD70000P - Rinse solution (20 ml sachet, 25 pcs.)
AD70300 - Electrode storage solution (230 ml bottle)
AD7061 - Electrode cleaning solution (230 ml bottle)

	AD100	AD101
Range	pH -2.0 to 16.0 pH	-2.00 to 16.00 pH
Resolution	pH 0.1 pH	0.01 pH
Accuracy	pH ±0.1 pH	±0.02 pH
Calibration	pH Automatic at 1 or 2 points	Automatic at 1 or 2 point
Temp. Compensation	Automatic	Automatic
Battery Type / Life	4 x 1.5V Button type / Approx. 250 hours	
Dimensions / Weight	173 x 41 x 22 mm / Approx. 100 g	

Calibration, Rinse and other solutions see on page 20

AD203-AD204

Standard Pocket Conductivity Testers

Easy to use, simple maintenance and yet high accuracy Conductivity pocket testers for daily measuring purposes.

With its built-in automatic temperature compensation feature, it ensures accurate readings under any ambient conditions.

Features such as splash-proof keypad prevent water infiltration into the testers, easy to read display among others make the testers easy and simple to maintain but yet provide professional measurements.

If calibration is necessary, simply submerge the electrode tip into the calibration solution and adjust the easily accessible trimmer on the side of the tester.



Automatic temperature compensation

Readings are automatically compensated for variations in temperature.

AD201-AD202

Standard Pocket TDS Testers

These pocket testers have an easy to read display and for better resolution they also show the full scale readout so to obtain the actual test values.

These TDS pocket testers provide a fast and dependable way to measure the Total Dissolved Solids in your water samples.

The built-in automatic temperature compensation feature ensures accurate readings under any ambient conditions.

The splash-proof keypad prevents water infiltrations into the testers.

If calibration is necessary, simply submerge the electrode tip into the calibration solution and adjust the easily accessible trimmer on the side of the tester.

AD203 is supplied with

AD70031 - 1413 $\mu\text{S}/\text{cm}$ calibration solution in sachet (20 ml); Protective cap; Screwdriver for calibration; Batteries (4 x 1.5V, button types); Instruction manual

AD204 is supplied with

AD70030 - 12.88 mS/cm calibration solution in sachet (20 ml); Protective cap; Screwdriver for calibration; Batteries (4 x 1.5V, button types); Instruction manual

AD201 is supplied with

AD70032 - 1382 ppm calibration solution in sachet (20 ml); Protective cap; Screwdriver for calibration; Batteries (4 x 1.5V, button types); Instruction manual

AD202 is supplied with

AD70030 - 12.88 mS/cm calibration solution in sachet (20 ml); Protective cap; Screwdriver for calibration; Batteries (4 x 1.5V, button types); Instruction manual



	AD203	AD204	AD201	AD202
Range	EC	0 to 1999 $\mu\text{S}/\text{cm}$	0.00 to 19.99 mS/cm	–
	TDS	–	–	0 to 1999 ppm
Resolution	EC	1 $\mu\text{S}/\text{cm}$	0.01 mS/cm	–
	TDS	–	–	1 ppm
Accuracy	EC/TDS	$\pm 2\%$ f.s.	$\pm 2\%$ f.s.	$\pm 2\%$ f.s.
Conversion factor	–	–	0.5 ppm	0.5 ppm
Temp. Compensation	Automatic	Automatic	Automatic	Automatic
Battery Type / Life	4 x 1.5V Button type / Approx. 150 hours			
Dimensions / Weight	173 x 41 x 22 mm / Approx. 100 g			

Accessories

- AD70031P - 1413 $\mu\text{S}/\text{cm}$ EC standard solution (20 ml sachet, 25 pcs.) [AD203]
- AD70030P - 12.88 mS/cm EC standard solution (20 ml sachet, 25 pcs.) [AD204, AD202]
- AD70032P - 1382 ppm TDS standard solution (20 ml sachet, 25 pcs.) [AD201]
- AD70442P - 1500 ppm TDS standard solution (20 ml sachet, 25 pcs.) [AD201]
- AD70000P - Rinse solution (20 ml sachet, 25 pcs.)
- AD7061 - Electrode cleaning solution (230 ml bottle)

Calibration, Rinse and other solutions see on page 20

Waterproof Pocket Testers

AD11-AD12

Professional Waterproof pH-Temperature Pocket Testers with replaceable probe

AD11 and AD12 are the most advanced micro-processor based Waterproof pH/Temp pocket testers in the market.

These fast, stable and precise pocket testers are for users who require the greatest accuracy. The modular design allows replacing the electrode in a fast and simple way.

Features such as stability indicator, automatic calibration, and automatic temperature compensation make these waterproof pocket testers a must-have in a variety of industries.



AD11P - Replaceable combination probe for AD11 and AD12
• pH/Temperature



AD14

Professional Waterproof pH-ORP-Temperature Pocket Tester with replaceable probe

AD14 is designed for simultaneous pH, ORP and Temperature measurements. The large 2 row display (LCD) also has graphic symbols to guide you through the operations. Calibration is performed automatically in 1 or 2 points.



AD14P - Replaceable combination probe for AD14

- pH/ORP/Temperature



Automatic temperature compensation (ATC)

- All pH readings are automatically temperature compensated. The encapsulated sensor allows fast and accurate temperature measurement and compensation.
- Temperature values can be displayed in °C or °F units.



HOLD function

Freezes the display for easy and accurate recording.



Stability indicator

The meter displays an hourglass symbol that will disappear when the measurement has achieved stability, and the reading should be taken.



Replaceable probe

Simple user-replaceable probe: just unscrew the plastic ring on the top of the electrode and replace the probe with a new one!



Calibrate directly in buffer solution sachets

Calibration can be performed right in buffer solution sachets for the most accurate readings.



Low battery indicator

When the batteries become weak, the battery symbol on the LCD lights up to indicate a low battery condition.

1 or 2 point automatic calibration

The meter can be calibrated at one or two points for pH with auto-buffer recognition and against 3 memorized buffer values

Accessories

AD11P - pH/Temperature probe [AD11, AD12]

AD14P - pH/ORP/Temperature probe [AD14]

AD70004P - pH 4.01 calibration solution (20 ml sachet, 25 pcs.)

AD70007P - pH 7.01 calibration solution (20 ml sachet, 25 pcs.)

AD70010P - pH 10.01 calibration solution (20 ml sachet, 25 pcs.)

AD70000P - Rinse solution (20 ml sachet, 25 pcs.)

AD70300 - Electrode storage solution (230 ml bottle)

AD7061 - Electrode cleaning solution (230 ml bottle)

AD7020 - ORP test solution, 200/275 mV (230 ml bottle) [AD14]

AD11 and AD12 are supplied with

AD11P - pH/Temperature probe; AD70004 - pH4 calibration solutions in sachet (20 ml); AD70007 - pH7 calibration solutions in sachet (20 ml); Protective cap; Clip holder; Wrist strap; Batteries (4 x 1.5, button types); Instruction manual

AD14 is supplied with

AD14P - pH/ORP/Temperature probe; AD70004 - pH4 calibration solution in sachet (20 ml); AD70007 - pH7 calibration solutions in sachet (20 ml); Protective cap; Clip holder; Wrist strap; Batteries (4 x 1.5, button types); Instruction manual

	AD11	AD12	AD14
Range	pH	-2.0 to 16.0 pH	-2.00 to 16.00 pH
	ORP	-	±1000 mV
	Temp.	-5.0 to 60.0°C 23.0 to 140.0°F	-5.0 to 60.0°C 23.0 to 140.0°F
Resolution	pH	0.1 pH	0.01 pH
	ORP	-	1 mV
	Temp.	0.1°C / 0.1°F	0.1°C / 0.1°F
Accuracy (at 25°C/77°F)	pH	±0.1 pH	±0.01 pH
	ORP	-	±2 mV
	Temp.	±0.5°C / ±1°F	±0.5°C / ±1°F
Calibration	pH	Automatic, 1 or 2 point with 2 sets of memorized buffers (pH 4.01/7.01/10.01 or 4.01/6.86/9.18)	
	ORP	-	Factory calibrated
Temp. Compensation	Automatic for pH readings		
Probe (Included)	AD11P - pH/Temp probe	AD11P - pH/Temp. probe	AD14P - pH/ORP/Temp. probe
Battery Type / Life	4 x 1.5V Button type / Approx. 300 hours of use		
Dimensions / Weight	175.5 x 39 x 23 mm / 100 g		

Electrodes, Probes and other Accessories see on page 18;
Calibration, Rinse and other solutions see on page 20

AD31-AD32

Professional Waterproof Conductivity-TDS-Temperature Pocket Testers with replaceable probe

AD31 and AD32 are waterproof Conductivity, TDS and temperature testers. The housing has been completely sealed against humidity. All Conductivity and TDS readings are automatically temperature compensated (ATC), and temperature values can be displayed in °C or °F units. The Conductivity/TDS conversion factor (CONV) can be selected by the user, as well as the coefficient β (BETA) for temperature compensation. The instruments can be calibrated at one point. Measurements are highly accurate with a unique stability indicator right on the LCD. The models are also provided with a low battery symbol which warns the user to replace the batteries.



AD32P - Replaceable combination probe for AD31 and AD32

The AD32P probe supplied with the meters, is interchangeable and can be easily replaced by the user. The encapsulated temperature sensor allows fast and accurate temperature measurement and compensation

AD33-AD35

Professional Waterproof Conductivity-Temperature Pocket Testers with replaceable probe

AD33 and AD35 are waterproof Conductivity testers, that also measure and display temperature. The housing has been completely sealed against humidity. All Conductivity readings are automatically temperature compensated, and temperature values can be displayed in °C or °F units.

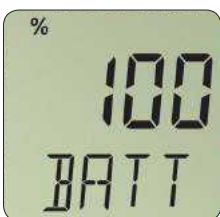
Conductivity calibration is automatic at one point, while temperature is factory calibrated and the user can perform an adjustment only. To prolong battery life, these models are provided with an auto-off feature that turns them off after 5 minutes of non-use.

Moreover, when batteries become too weak to ensure reliable readings the meter automatically turns off.



AD33P - Replaceable combination probe for AD33 and AD35

The AD33P probe supplied with the meters, is interchangeable and can be easily replaced by the user. The encapsulated temperature sensor allows fast and accurate temperature measurement and compensation



Battery percentage indicator [AD31, AD32]

After turn on the meter, all the used segments will be visible for one second (or as long as the button is pressed), followed by the percentage indication of the remaining battery life.



Automatic calibration

Simple and easy automatic 1 point calibration.

AD31 is supplied with

AD32P - EC/TDS/Temperature probe; AD70031 - 1413 μS/cm calibration solutions in sachet (20 ml); Protective cap; Clip holder; Wrist strap; Batteries (4 x 1.5, button types); Instruction manual

AD32 is supplied with

AD32P - EC/TDS/Temperature probe; AD70030 - 12.88 mS/cm calibration solutions in sachet (20 ml); Protective cap; Clip holder; Wrist strap; Batteries (4 x 1.5, button types); Instruction manual

AD33 is supplied with

AD33P - EC/Temperature probe, AD70031 - 1413 μS/cm calibration solutions in sachet (20 ml); Protective cap; Clip holder; Wrist strap; Batteries (4 x 1.5, button types); Instruction manual

AD35 is supplied with

AD33P - EC/Temperature probe; Protective cap; Clip holder; Wrist strap; Batteries (4 x 1.5, button types); Instruction manual



Replaceable probe

Simple user-replaceable probe: just unscrew the plastic ring on the top of the electrode and replace the probe with a new one!

Accessories

- AD32P - Replaceable EC/TDS/Temperature probe [AD31, AD32]
- AD33P - Replaceable EC/Temperature probe [AD33, AD35]
- AD7033 - 84 μS/cm calibration solution (230 ml bottle) [AD35]
- AD70030P - 12.88 mS/cm EC standard solution (20 ml sachet, 25 pcs.) [AD32]
- AD70031P - 1413 μS/cm EC standard solution (20 ml sachet, 25 pcs.) [AD31, AD33]
- AD70442P - 1500 ppm TDS standard solution (20 ml sachet, 25 pcs.)
- AD70000P - Rinse solution (20 ml sachet, 25 pcs.)
- AD7061 - Electrode cleaning solution (230 ml bottle)

	AD31	AD32	AD33	AD35
Range	EC	0 to 3999 μS/cm	0.00 to 20.00 mS/cm	0 to 1999 μS/cm
	TDS	0 to 2000 ppm	0.00 to 10.00 ppt	-
	Temp.	0.0 to 60.0°C / 32.0 to 140.0°F	0.0 to 60.0°C / 32.0 to 140.0°F	0.0 to 60.0°C / 32.0 to 140.0°F
Resolution	EC	1 μS/cm	0.01 mS/cm	1 μS/cm
	TDS	1 ppm	0.01 ppt	-
	Temp.	0.1°C / 0.1°F	0.1°C / 0.1°F	0.1°C / 0.1°F
Accuracy (at 25°C/77°F)	EC/TDS	±2% f.s.	±2% f.s.	±2% f.s.
	Temp.	±0.5°C / ±1°F	±0.5°C / ±1°F	±0.5°C / ±1°F
Calibration	EC/TDS	Automatic, 1 point		
Temp. Compensation	Automatic			
Probe (Included)	AD32P - EC/TDS/Temp. probe		AD33P - EC/Temp. probe	AD33P - EC/Temp. probe
Battery Type	4 x 1.5V Button type			
	Approx. 100 hours of use		Approx. 150 hours of use	Approx. 150 hours of use
Dimensions / Weight	175.5 x 39 x 23 mm / 100 g			

Electrodes, Probes and other Accessories see on page 18; Calibration, Rinse and other solutions see on page 20

Continuous Monitors

ECO209

Continuous pH Monitor

ECO209 is a continuous pH monitor suitable for constant monitoring of pH level of a given water or solution sample such as aquarium tank, ponds, hydroponics systems, among others. It is easy to use, with simple maintenance features, with 2 calibration points for better accuracy.

ECO209	
Range	pH 0.0 to 14.0 pH
Resolution	pH 0.1 pH
Accuracy (at 25°C/77°F)	pH ±0.2 pH
Calibration	Manual, 2 points through trimmer
Probe (Included)	AD1230B - epoxy body pH electrode with double junction, BNC connector
Environment	0 to 50°C, 95% RH max
Power Supply	External, 12 Vdc
Dimensions / Weight	120 x 134 x 54 mm / Approx. 250 g

ECO209 is supplied with

AD1230B - pH electrode with epoxy body, double junction, BNC connector; Stainless steel grounding probe; AD70004 - pH4 calibration solution in sachet (20 ml); AD70007 - pH7 calibration solution in sachet (20 ml); Screwdriver for calibration; 12 Vdc adapter; Instruction manual

Electrodes, Probes and other Accessories see on page 18;
Calibration, Rinse and other solutions see on page 20



AD1230B - pH electrode
The monitor utilizes a gel-filled interchangeable pH electrode and has been specially designed to address the needs of growers.

Accessories

AD1230B - pH electrode
AD1286 - pH electrode
AD70004P - pH 4.01 calibration solution (20 ml sachet, 25 pcs.)
AD70007P - pH 7.01 calibration solution (20 ml sachet, 25 pcs.)

AD70010P - pH 10.01 calibration solution (20 ml sachet, 25 pcs.)
AD70000P - Rinse solution (20 ml sachet, 25 pcs.)
AD70300 - Electrode storage solution (230 ml bottle)
AD7061 - Electrode cleaning solution (230 ml bottle)



AD7632 - EC probe for ECO406

	ECO406	ECO407
Range	EC 0 to 9.99 mS/cm	-
	TDS -	0 to 1990 ppm
Resolution	EC 0.01 mS/cm	-
	TDS -	10 ppm
Accuracy (at 25°C/77°F)	±2% f.s.	±2% f.s.
TDS factor	-	Approx. 0.7
Calibration	Manual, single point, through trimmer	Manual, single point, through trimmer
Temp. Compensation	Automatic	Automatic
Probe (Included)	AD7632 - EC probe for ECO406	AD7634 - TDS probe for ECO407
Environment	0 to 50°C, 95% RH max	0 to 50°C, 95% RH max
Power Supply	External, 12 Vdc adapter	
Dimensions / Weight	120 x 134 x 54 mm / Approx. 300 g	

ECO406 is supplied with

AD7632 - EC probe for ECO406 with 2 m cable; AD70031 - 1413 µS/cm calibration solutions in sachet (20 ml); Screwdriver for calibration; 12 Vdc adapter, Instruction manual

ECO407 is supplied with

AD7634 - TDS probe for ECO407 with 2 m cable; AD70032 - 1382 ppm calibration solutions in sachet (20 ml); Screwdriver for calibration; 12 Vdc adapter; Instruction manual

Accessories

AD7632 - EC probe for ECO406 with 2 m cable
AD7634 - TDS probe for ECO407 with 2 m cable
AD70031P - 1413 µS/cm EC calibration solution (20 ml sachet, 25 pcs.) [ECO406]
AD70032P - 1382 ppm calibration solution (20 ml sachet, 25 pcs.) [ECO407]
AD70442P - 1500 ppm TDS standard solution (20 ml sachet, 25 pcs.) [ECO407]
AD70000P - Rinse solution (20 ml sachet, 25 pcs.)
AD7061 - Electrode cleaning solution (230 ml bottle)

ECO406-ECO407

Continuous Conductivity [ECO406] and TDS [ECO407] Monitors

These continuous indicators are designed for easy maintenance, simple to read, accurate readings and cost effective purpose, to meet the general requirements of all range of users. They come with single point manual calibration and automatic temperature compensation that makes these monitors even more reliable.

The meters are supplied with an epoxy body (EC, TDS) probe for a more durable life-span, with calibration solutions and screwdriver for calibration purposes. The ideal tool to monitor your nutrient solution continuously without having to worry about dead batteries.



AD7634 - TDS probe for ECO407

Electrodes, Probes and other Accessories see on page 18;
Calibration, Rinse and other solutions see on page 20

Standard Professional Portable Meters

ATC / MTC

Automatic and manual temperature compensation.

Hold Function

Freeze the first stable reading on the LCD.

Low battery indicator

When the batteries become weak, the battery symbol on the LCD lights up to indicate a low battery condition.

Stability indicator

The meter displays an hourglass symbol that will disappear when the measurement has achieved stability, and the reading should be taken.

Auto Shut-off

To save battery life, the meters have an auto-off feature.

	pH	ORP	EC	TDS	Temperature	ATC	MTC	Stability Indicator	Low Battery Indicator	Hold Function	Auto Shut-off
AD110	•				•	•		•	•	•	•
AD111	•	•			•	•		•	•	•	•
AD310			•		•	•	•	•	•	•	•
AD410				•	•	•	•	•	•	•	•



AD110-AD111

Standard Professional pH-Temperature (AD 110) and pH-ORP-Temperature (AD 111) Portable Meters

AD110 and AD111 are compact pH meters featuring automatic pH calibration, HOLD function, low battery indication, temperature measurement and compensation. In addition, AD111 can measure in the mV range.

AD110 and AD111 offer you the greatest value-for-money for basic pH, ORP [AD111] and Temperature measurements. 2 points push-button calibration with auto buffer recognition in 3 points (pH 4.01, pH 7.01 and pH 10.01).

Auto-off after 8 minutes of non-use conserves energy and lengthens battery life-span.



Optional AD3230B - ORP electrode [AD111]

- Gel filled combination ORP electrode with platinum contact

AD110 and AD111 are supplied with AD1230B - pH electrode with epoxy body, double junction, BNC connector and 1 m cable; AD7662 - Stainless steel temperature probe with 1 m cable; AD70004 - pH4 calibration solution in sachet (20 ml); AD70007 - pH7 calibration solution in sachet (20 ml); Batteries (4 x 1.5V, AA alkaline); Instruction manual

Accessories

Find an accessory guide for portable meters on page 13



	AD110	AD111
Range	pH	-2.00 to 16.00 pH
	mV	-
	Temp.	-5.0 to 105.0°C
Resolution	pH	0.01 pH
	mV	-
	Temp.	0.1°C
Accuracy (at 25°C/77°F)	pH	±0.02 pH
	mV	-
	Temp.	±0.5°C up to 60°C ±1°C (outside)
Calibration	pH	Automatic, 1 or 2 point, with 3 memorized buffers value
	mV	-
	Temp.	Factory calibrated
Probes (included)	AD1230B - epoxy body pH electrode with double junction, BNC connector and 1 m cable; AD7662 - Stainless steel temperature probe with 1 m cable	
Temp. Compensation	Automatic or 25°C fixed	
Battery Type / Life	4 x 1.5V AA batteries / Approx. 1500 hours of continuous use	
Dimensions / Weight	70 x 145 x 26 mm / Approx. 200 g	

AD310-AD410

Standard Professional Conductivity-Temperature [AD310] and TDS-Temperature [AD410] Portable Meters

AD310 and **AD410** are portable microprocessor-based instruments for measuring EC or TDS, and temperature.

The auto ranging feature of the EC and TDS readings automatically sets the instrument to the scale with the highest resolution.

Measurements are compensated for temperature effect automatically (ATC) or manually (MTC). The temperature compensation feature can also be disabled to measure actual conductivity or TDS. The temperature coefficient is user selectable. The instruments also feature a measurement stability indicator.



AD310 is supplied with

AD76309 - EC/TDS/Temperature probe with built-in temperature sensor and 1 m cable; **AD70031** - 1413 µS/cm calibration solutions in sachet (20 ml); Batteries (4 x 1.5V, AA alkaline); Instruction manual

AD410 is supplied with

AD76309 - EC/TDS/Temperature probe with built-in temperature sensor and 1 m cable; **AD70032** - 1382 ppm calibration solutions in sachet (20 ml); Batteries (4 x 1.5V, AA alkaline); Instruction manual

	AD310	AD410
Range	EC	19.99 µS/cm 199.9 µS/cm 1999 µS/cm 19.99 mS/cm 199.9 mS/m
	TDS	9.99 ppm 99.9 ppm 999 ppm 9.99 ppt 99.9 ppt
	Temp.	-9.9 to 120.0°C
Resolution	EC	0.01 µS/cm 0.1 µS/cm 1 µS/cm 0.01 mS/cm 0.1 mS/cm
	TDS	0.01 ppm 0.1 ppm 1 ppm 0.01 ppt 0.1 ppt
	Temp.	0.1°C
Accuracy (at 25°C/77°F)	EC	±1% f.s.
	TDS	±1% f.s.
	Temp.	±0.5°C
Calibration	EC	Offset: 0.0 µS/cm; Slope: 1 point with 6 memorized standards (84.0, 1413 µS/cm; 5.00, 12.88, 80.0, 111.8 mS/cm) or one custom value
	TDS	Offset: 0.0 ppm; Slope: 1 point with 4 memorized standards (800, 1382 ppm; 6.44, 40.0 ppt) or one custom value
Temperature Compensation	ATC/MTC, -9.9 to 120.0°C	ATC/MTC, -9.9 to 120.0°C
Temperature Coefficient	Selectable from 0.00 to 6.00% / °C	Selectable from 0.00 to 6.00% / °C
Reference Temperature	Selectable at 20.0 or 25.0°C	Selectable at 20.0 or 25.0°C
Probe (Included)	AD76309 - Stainless steel, 4-ring EC/TDS/Temperature probe with DIN connector and 1 m cable	
Battery Type / Life	4 x 1.5V AA batteries / Approx. 200 hours of continuous use	
Dimensions / Weight	70 x 145 x 26 mm / Approx. 200 g	

Accessories

Find an accessory guide for portable meters on page 13

Professional Waterproof Portable Meters

ATC / MTC

Automatic and manual temperature compensation.

Stability indicator

The meter displays an hourglass symbol that will disappear when the measurement has achieved stability, and the reading should be taken.

GLP

GLP allows storage and retrieval of data regarding the status of the system.

Memory

Store your current readings, samples on demand, with a time stamp.

PC Interface

Logged data can be transferred to a PC or printer through the RS232 port.

Auto Shut-off

To save battery life, the meters have an auto-off feature.

Low battery indicator

When the batteries become weak, the battery symbol on the LCD lights up to indicate a low battery condition.

	pH	ORP	EC	TDS	Temperature	Dissolved Oxygen	ATC	MTC	Stability Indicator	Low Battery Indicator	Hold Function	Auto Shut-off	Pc Interface	GLP	Memory
AD130	•	•			•		•	•	•	•	•	•			
AD131	•	•			•		•	•	•	•	•	•		•	
AD132	•	•			•		•	•	•	•	•	•	•	•	•
AD330			•	•			•	•	•	•	•	•		•	
AD331			•	•			•	•	•	•	•	•		•	
AD332			•	•			•	•	•	•	•	•		•	
AD630					•	•	•	•	•	•	•	•		•	



AD130

Professional Multi-Parameter Splash-Proof pH-ORP-Temp Portable Meter

AD130 is a heavy-duty portable pH meter designed to provide laboratory results and accuracy even under harsh industrial conditions.

- 7 memorized buffers for pH calibration (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01 and 12.45)
- Messages on the LCD to make the calibration easy and accurate
- pH readings with manual or automatic
- Temperature compensation
- pH calibration using pH buffers with 0.01 resolution
- Temperature range from -20 to 120°C (-4 to 248°F) using A7662 probe

AD130 can also use ORP electrodes to measure mV, with a resolution up to 0.1 mV.



AD130 is supplied with

AD1230B - pH electrode with epoxy body, double junction, BNC connector and 1 m cable; **AD7662** - Stainless steel temperature probe with 1 m cable; **AD70004** - pH4 calibration solution in sachet (20 ml); **AD70007** - pH7 calibration solution in sachet (20 ml); Wrist strap; Batteries (4 x 1.5V, AA alkaline); Instruction manual

Optional AD3230B - ORP electrode

- Gel filled combination ORP electrode with platinum contact



Accessories

Find an accessory guide for portable meters on page 13

AD131 - AD132

Professional Waterproof pH-ORP-Temperature Portable Meter with GLP & RS232 interface

AD131 and AD132 are heavy-duty portable waterproof meters for pH, ORP (Oxidation Reduction Potential) and temperature measurements, designed to provide laboratory results and accuracy even under harsh industrial conditions.

- 7 memorized buffers for pH calibration (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01 and 12.45)
- Messages on the LCD to make the calibration easy and accurate
- pH readings with manual or automatic temperature compensation
- Calibration time-out alarm
- Log-on-demand
- HOLD feature to freeze stable reading on the LCD
- GLP feature to view last calibration data for pH and relative mV
- PC interface [AD132]
- AD132 allows connection to an external serial printer with the following specification: at least 16 characters/line, baud rate 9600 and 9-pin RS232 input



AD131 and AD132 are supplied with

AD1230B - pH electrode with epoxy body, double junction, BNC connector and 1 m cable; **AD7662** - Stainless steel temperature probe with 1 m cable; **AD70004** - pH4 calibration solution in sachet (20 ml); **AD70007** - pH7 calibration solution in sachet (20 ml); Wrist strap; Batteries (4 x 1.5V, AA alkaline); Instruction manual; **AD9551** - Serial communication cable [AD132]

Optional AD3230B - ORP electrode

- Gel filled combination ORP electrode with platinum contact



Accessories

Find an accessory guide for portable meters on page 13

	AD130	AD131 - AD132
Range	pH	-2.00 to 16.00
	ORP	±1999 mV
	Temp	-20.0 to 120.0°C / -4.0 to 248.0°F
Resolution	pH	0.01 pH
	ORP	0.1 ±699.9 mV / 1 mV (outside)
	Temp	0.1°C (0.1°F)
Accuracy (at 25°C/77°F)	pH	±0.01 pH
	ORP	±0.2 up to ±699.9 mV / ±1 mV (outside)
	Temp	±0.4°C (±0.8°F) (excluding probe error)
Calibration	pH	1 or 2 point calibration, 7 standard buffers available (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45)
	ORP	Factory calibrated
Temperature compensation	ATC/MTC, -20.0 to 120.0°C (-4.0 to 248.0°F)	ATC/MTC, -20 to 120°C (-4.0 to 248.0 °F)
Unit	°C and °F	°C and °F
Memory	-	Log-on-demand 500 samples
GLP	-	Yes (With time stamp)
Hold function	Yes	Yes (Auto End Point)
Low battery indication	Yes	-
Stability indicator	Yes	Yes
Auto shutt-off	20 min. (can be disabled)	5 min. (can be disabled)
PC Interface	-	RS232 for PC software and External Printer [AD132]
Probe (Included)	AD1230B - epoxy body pH electrode with double junction, BNC connector and 1 m cable; AD7662 - Stainless steel temperature probe with 1 m cable	Up to 5-point calibration, with 7 standard buffers (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45)
Battery Type / Life	4 x 1.5V AA batteries / Approx. 500 hours of continuous use	4 x 1.5V AA batteries / Approx. 300 hours of continuous use
Dimensions / Weight	188 x 96 x 70 mm / 460 g	188 x 96 x 70 mm / 460 g



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 mS/cm 20.0 to 199.9 mS/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 mS/cm 0.1 mS/cm
	Temp. 0.1 $^{\circ}\text{C}$
Accuracy (at 25 $^{\circ}\text{C}/77^{\circ}\text{F}$)	EC/TDS $\pm 1\%$ f.s.
	Temp. ± 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 mS/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 mS/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 mS/cm 20.0 to 199.9 mS/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 mS/cm 0.1 mS/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. ± 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 mS/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 mS/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

AD630

Dissolved Oxygen & Temperature Waterproof Portable Meter with GLP & RS232 interface

AD630 is a heavy-duty portable waterproof meter for DO (Dissolved Oxygen) and temperature measurements, designed to provide laboratory results and accuracy even under harsh industrial conditions.

- DO readings displayed in ppm or % saturation units
- DO calibration at 1 or 2 standard points (0 and 100%), or at 1 custom point (>20%)
- Galvanic DO probe with built-in temperature sensor
- Automatic temperature compensation
- Log-on-demand
- Setup mode for setting altitude & salinity compensation factors, temperature measure unit (°C or °F), serial communication parameters, date & time, auto-off, instrument ID code
- HOLD feature to freeze stable reading on the LCD
- GLP feature to view last calibration data
- PC interface via RS232 port

AD630 is supplied with

AD8001/3 - Galvanic DO probe with built-in temperature sensor;
AD8001A/P - Spare membrane with O-ring; AD9072S - Electrolyte solution (30 ml bottle); AD9551 - Serial communication cable; Wrist strap; Batteries (4 x 1.5V, AA alkaline); Instruction manual

Accessories

AD8001/3 - Galvanic DO probe with built-in temperature sensor
AD8001A/P - Spare membrane with O-ring (5 pcs)
AD7040 - Two-component zero oxygen solution
AD9072S - Electrolyte solution for DO galvanic probe
AD9316 - Application software
AD9551 - Serial communication cable
AD9345 - Hard carrying case (Dimensions: 400 mm x 300 mm x 100 mm)

Electrodes, Probes and other Accessories see on page 18; Calibration, Rinse and other solutions see on page 20



AD8001/3 galvanic DO probe with built-in temperature sensor

- Galvanic probe: Unlike polarographic probes, Galvanic DO probes do not require any conditioning time when the unit is switched on, saving time when many measurements are required.

	AD630
Range	0.00 to 45.00 ppm O ₂ 0.0 to 300.0 % saturation 0.0 to 50.0°C / 32.0 to 122.0°F
Resolution	0.01 ppm / 0.1% 0.1°C / 0.1°F
Accuracy	±1.5% f.s. (DO) ±0.5°C / ±1.0°F
DO calibration	Automatic, at 1 or 2 standard points (0 and 100%) or 1 custom point (> 20%)
Temperature Calibration	User offset adjustment
Temperature Compensation	Automatic from 0 to 50°C
Altitude Compensation	0 to 4000 m (resolution 100 m)
Salinity Compensation	0.0 to 50.0 g/l (resolution 0.1 g/l)
Memory	Log-on-demand: Up to 100 samples
GLP	Yes
PC Interface	RS232 port
Probe (included)	AD8001/3 - Galvanic DO probe with internal temperature sensor, DIN connector and 3 m cable
Environment	0 to 50°C (32 to 122°F) RH max. 100% non-condensing
Battery Type / Life	4 x 1.5 V AA, alkaline battery / Approx. 200 hours of continuous use
Auto shutt-off	User selectable: 5 minutes or disabled
Dimensions / Weight	188 x 96 x 70 mm / 460 g

Accessory guide for portable meters



AD9551 - Serial communication cable
[AD132, AD332, AD630]



AD9316 - Application software
[AD132, AD332, AD630]

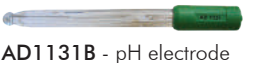


AD70000P - Rinse solution (20 ml sachet, 25 pcs.)
AD7061 - Electrode cleaning solution (230 ml bottle)



AD9345 - Hard carrying case for waterproof portable meters
Dimensions:
400 mm x 300 mm x 100 mm

AD110 - AD111 - AD130 - AD131 - AD132



AD1131B - pH electrode



AD1230B - pH electrode



AD1286 - pH electrode



AD7662 - Temperature probe



AD3230B - ORP electrode
[AD111, AD130, AD131, AD132]

AD70004P - pH 4.01 calibration solution (20 ml sachet, 25 pcs.);
AD70007P - pH 7.01 calibration solution (20 ml sachet, 25 pcs.);
AD70010P - pH 10.01 calibration solution (20 ml sachet, 25 pcs.);
AD7020 - ORP test solution, 200/275 mV (230 ml bottle);
AD70300 - Electrode storage solution (230 ml bottle);
AD7082 - Electrode refillable solution 3.5 M KCl (30 ml bottle, 4 pcs.)



AD310 - AD410 - AD330 - AD331 - AD332



AD76309 - Conductivity probe with built-in temperature sensor

AD9350 - Hard carrying case for standard portable meters
Dimensions:
240 mm x 180 mm x 80 mm



AD70030P - 12.88 mS/cm EC standard solution (20 ml sachet, 25 pcs.)
AD70031P - 1413 µS/cm EC calibration solution (20 ml sachet, 25 pcs.)
AD70032P - 1382 ppm calibration solution (20 ml sachet, 25 pcs.)
AD7033 - 84 µS/cm calibration solution (230 ml bottle)
AD7034 - 80000 µS/cm calibration solution (230 ml bottle)
AD7035 - 111800 µS/cm calibration solution (230 ml bottle)
AD7039 - 5000 µS/cm calibration solution (230 ml bottle)



More about electrodes and probes on page 18; About calibration, rinse and other solutions on page 20

Benchtop Meters

Compact assistance for work and education



AD1131B Electrode

The AD1000 family is supplied with the AD1131 - refillable, glass body pH electrode with double junction and BNC connector.



Non-skid footpads

The footpads are ensuring stability for the meters even on slippery surfaces.



Mountable electrode holder

Electrode holder can be mounted to either side of the benchtop meters.



AD1000-AD1020

Professional Multi-Parameter pH-ORP-Temperature and pH-ORP-ISE-Temperature Benchtop Meters with RS232/USB interface & GLP

AD1000 and AD1020 are professional benchtop meters with ranges for pH, ORP (Oxidation Reduction Potential), ISE [1020] and temperature measurements. Relative mV readings are also provided.

- Up to 5-point calibration with 7 memorized buffers and two custom buffers
- Calibration time-out alarm
- pH calibration using buffers with 0.001 resolution
- pH readings with manual or automatic temperature compensation
- Log-on-demand (up to 50 samples) and automatic logging (up to 1000 samples)
- Two selectable alarm limits
- User selectable logging interval mode
- HOLD feature to freeze the stable reading on the LCD
- GLP feature to view last calibration data for pH, ISE and relative mV
- PC interface/RS232/USB

AD1030-AD1040-AD1200

Professional Multi-Parameter pH-ORP-Temperature and pH-ORP-ISE-Temperature Benchtop Meters with GLP

AD1030, AD1040 and AD1200 are professional benchtop meters for pH, ORP (Oxidation Reduction Potential), ISE (AD1200 only) and temperature measurements. Relative mV readings are also provided.

- Up to 3-point calibration with 7 memorized buffers and two custom buffers
- Calibration time-out alarm
- pH calibration using buffers with 0.001 resolution
- pH readings with manual or automatic temperature compensation
- Up to 50 samples for log-on-demand [AD1040, AD1200]
- Two selectable alarm limits
- HOLD feature to freeze the stable reading on the LCD
- GLP feature to view last calibration data for:
 - pH and relative mV ranges [AD1040]
 - pH, ISE and relative mV ranges [AD1200]

Optional electrode holder

AD9315 is an adjustable arm with great stability and flexibility



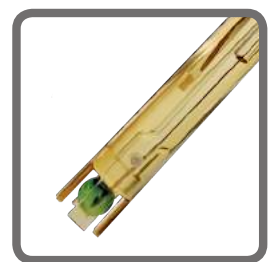
Optional AD3230B ORP electrode

Gel-filled combination ORP electrode with platinum contact



Optional AD1230B pH electrode

Gel-filled, epoxy body, interchangeable pH electrode



“Cal Due” Alarm

Visual reminder when recalibration is necessary.

Data Logging

[AD1000, AD1020, AD1040, AD1200]

Store your samples into a built-in memory.

PC interface - Data transfer

[AD1000, AD1020]

Transfer your measurement's data to your PC.



GLP

[AD1000, AD1020, AD1040, AD1200]

GLP allows storage and retrieval of data regarding the status of the system.



HOLD Function

Freeze the first stable reading on the LCD.

	AD1000	AD1020	AD1030/1040	AD1200
Range	pH	-2.00 to 16.00 pH / -2.000 to 16.000 pH	-2.00 to 16.00 pH / -2.000 to 16.000 pH	-2.00 to 16.00 pH / -2.000 to 16.000 pH
	ORP	±2000 mV	±2000 mV	±2000 mV
	ISE	-	0.001 to 19999 ppm	-
	Temp.	-20.0 to 120.0°C (-4.0 to 248.0°F)	-20.0 to 120.0°C (-4.0 to 248.0°F)	-20.0 to 120.0°C (-4.0 to 248.0°F)
Resolution	pH	0.01 pH / 0.001 pH	0.01 pH / 0.001 pH	0.01 pH / 0.001 pH
	ORP	0.1 mV (±999.9 mV) / 1 mV (outside)	0.1 mV (±999.9 mV) / 1 mV (outside)	0.1 mV (±999.9 mV) / 1 mV (outside)
	ISE	-	0.001 ppm (0.001 to 9.999) 0.01 ppm (10.00 to 99.99) 0.1 ppm (100.0 to 999.9) 1 ppm (1000 to 19999)	0.001 ppm (0.001 to 9.999) 0.01 ppm (10.00 to 99.99) 0.1 ppm (100.0 to 999.9) 1 ppm (1000 to 19999)
	Temp.	0.1°C (0.1°F)	0.1°C (0.1°F)	0.1°C (0.1°F)
Accuracy (at 25°C/77°F)	pH	±0.01 pH / ±0.002 pH	±0.01 pH / ±0.002 pH	±0.01 pH / ±0.002 pH
	ORP	±0.2 mV up to ±699.9 mV ±0.5 mV up to ±999.9 mV ± 2 mV outside	±0.2 mV up to ±699.9 mV ±0.5 mV up to ±999.9 mV ± 2 mV outside	±0.2 mV up to ±699.9 mV ±0.5 mV up to ±999.9 mV ± 2 mV outside
	ISE	-	±0.5% f.s. ISE	-
	Temp.	±0.4°C (±0.7°F) (excluding probe error)	±0.4°C (±0.7°F) (excluding probe error)	±0.4°C (±0.7°F) (excluding probe error)
Calibration	pH	Up to 5 point calibration, with 2 custom and 7 standard buffers (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45)	Up to 5 point calibration, with 2 custom and 7 standard buffers (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45)	Up to 3 point calibration, with 2 custom and 7 standard buffers (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45)
	ISE	-	Up to two-point calibration, 5 standard solutions available (0.1, 1, 10, 100, 1000 ppm)	Up to two-point calibration, 5 standard solutions available (0.1, 1, 10, 100, 1000 ppm)
Memory	Log-on-demand: Up to 50 samples; Automatic logging: Up to 1000 samples	Log-on-demand: Up to 50 samples; Automatic logging: Up to 1000 samples	Log-on-demand: Up to 50 samples [AD1040]	Log-on-demand: Up to 50 samples
PC Interface	USB and RS232	USB and RS232	-	-
Probes (included)	AD1131B - Refillable, glass body pH electrode with double junction, BNC connector and 1 m cable; AD7662 - Stainless steel temperature probe with 1 m cable			
Power supply	12 Vdc power adapter			
Dimensions	230 x 180 x 50 mm	230 x 180 x 50 mm	230 x 180 x 50 mm	230 x 180 x 50 mm
Weight	1.8 kg	1.8 kg	1.8 kg	1.8 kg

AD1000 and AD1020 are supplied with

AD1131B - Refillable glass body pH electrode with BNC connector and 1 m cable; **AD7662** - Stainless steel temperature probe with 1 m cable; Electrode holder; **AD70004** - pH4 calibration solution in sachet (20 ml); **AD70007** - pH7 calibration solutions in sachet (20 ml); **AD9551** - Serial communication cable; 12 Vdc power adapter; Instruction manual.

AD1030, AD1040 and AD1200 are supplied with

AD1131B - Refillable glass body pH electrode with BNC connector and 1 m cable; **AD7662** - Stainless steel temperature probe with 1 m cable; Electrode holder; **AD70004** - pH4 calibration solution in sachet (20 ml); **AD70007** - pH7 calibration solutions in sachet (20 ml); 12 Vdc power adapter; Instruction manual.

Accessories

- AD1131B** - pH electrode
- AD1230B** - pH electrode
- AD1286** - pH electrode
- AD3230B** - Combination ORP electrode
- AD7662** - Temperature probe
- AD7000** - Rinse solution, 20 ml sachet (230 ml bottle)
- AD7004** - pH 4.01 calibration solution (230 ml bottle)
- AD7007** - pH 7.01 calibration solution (230 ml bottle)
- AD7010** - pH 10.01 calibration solution (230 ml bottle)
- AD7020** - ORP test solution, 200/275 mV (230 ml bottle)
- AD70300** - Electrode storage solution (230 ml bottle)
- AD7061** - Electrode cleaning solution (230 ml bottle)
- AD7082** - Electrode refillable solution 3.5 M KCl (30 ml bottle, 4 pcs.)
- AD7082S** - Electrode refillable solution 3.5 M KCl (30 ml bottle)
- AD9315** - Electrode holder
- AD9316** - Application software [AD1000, AD1020]
- AD9551** - Serial communication cable [AD1000, AD1020]

Electrodes, Probes and other Accessories see on page 18; Calibration, Rinse and other solutions see on page 20

AD3000

Professional Multi-Parameter Conductivity-TDS-Temperature Benchtop Meter with GLP

AD3000 is a microprocessor-based conductivity, TDS and temperature meter.

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) with the conductivity probe with built-in temperature sensor. It is also possible to disable the temperature compensation and measure the actual conductivity. The temperature coefficient is user selectable. The instrument is equipped with a stability indicator, to indicate when the measurement is to be recorded.



Custom or Automatic Calibration

With AD3000 you can choose between Custom or Automatic calibration.

Wide-scale of measuring ranges

AD3000 features 5 measuring ranges both EC and TDS.

Autoranging

The EC and TDS scales are autoranging. The meter automatically sets the scale with the highest possible resolution.



Stability indicator

The meter displays an hourglass symbol that will disappear when the measurement has achieved stability, and the reading should be taken.



GLP

With the GLP function, AD3000 allows the user to enter an ID code to uniquely identify the instrument. GLP also allows to store and retrieve data regarding the status of the system.



Hold Function

Freeze the first stable reading on the LCD.

Data Logging

AD3000 allows you to store up to 250 samples. By storing a sample, a complete information is memorized:

- Date



- EC or TDS readings



- Temperature readings



AD3000		
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 mS/cm 20.0 to 199.9 mS/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 $^{\circ}\text{C}$
Resolution	EC	0.01 $\mu\text{S}/\text{cm}$ 0.1 $\mu\text{S}/\text{cm}$ 1 $\mu\text{S}/\text{cm}$ 0.01 mS/cm 0.1 mS/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	$\pm 1\%$ f.s.
	TDS	$\pm 1\%$ f.s.
	Temp.	$\pm 0.5^{\circ}\text{C}$
Calibration	EC	Offset at 0.00 $\mu\text{S}/\text{cm}$; Slope at 1 point with 6 memorized values (84.0, 1413 $\mu\text{S}/\text{cm}$; 5.00, 12.88, 80.0, 111.8 mS/cm) or with custom value
Memory		Log-on-demand: Up to 250 samples
Probes (included)		AD76309 - Stainless steel, 4-ring EC/TDS/Temperature probe with DIN connector and 1 m cable
Power supply		12 Vdc power adapter
Dimensions		230 x 180 x 50 mm
Weight		1.8 kg

AD3000 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 mS/cm calibration solutions in sachet (20 ml); 12 Vdc power adapter; Instruction manual.

Accessories

AD76309 - EC/TDS/Temperature probe with built-in temperature sensor
 AD7030 - 12.88 mS/cm EC standard solution (230 ml bottle)
 AD7031 - 1413 $\mu\text{S}/\text{cm}$ EC calibration solution (230 ml bottle)
 AD7032 - 1382 ppm calibration solution (230 ml bottle)
 AD7033 - 84 $\mu\text{S}/\text{cm}$ calibration solution (230 ml bottle)
 AD7034 - 80000 $\mu\text{S}/\text{cm}$ calibration solution (230 ml bottle)
 AD7035 - 111800 $\mu\text{S}/\text{cm}$ calibration solution (230 ml bottle)
 AD7039 - 5000 $\mu\text{S}/\text{cm}$ calibration solution (230 ml bottle)
 AD7000 - Rinse solution (230 ml bottle)
 AD7061 - Electrode cleaning solution (230 ml bottle)

Electrodes, Probes and other Accessories see on page 18; Calibration, Rinse and other solutions see on page 20

AD8000

Professional Multi-Parameter pH-ORP-Conductivity-TDS-Temperature Benchtop Meter with GLP



AD8000 is a microprocessor-based pH, ORP, conductivity, TDS, and temperature benchtop meter. Relative mV feature is also provided. The auto-ranging feature of the EC and TDS ranges automatically sets the instrument to the scale with the highest resolution. pH measurements are compensated for temperature effect automatically (ATC) using an AD7662 temperature probe, while the EC readings can be compensated automatically (ATC) using the supplied conductivity probe with a built-in temperature sensor, or manually (MTC). It is also possible to disable the temperature compensation and measure the actual conductivity. The temperature coefficient is user selectable. The pH calibration can be performed at 1, 2, or 3 points with five memorized buffers (pH 4.01, 6.86, 7.01, 9.18, 10.01).

Besides, **AD8000** is provided with calibration timeout alarm, GLP feature to view last calibration data, and automatic HOLD feature to freeze the first stable reading on the LCD.

	AD8000
Range	pH -2.00 to 16.00 pH / -2.000 to 16.000 pH
	ORP ±699.9 mV / ±2000 mV
	EC 0.00 to 19.99 μS/cm 20.0 to 199.9 μS/cm 200 to 1999 μS/cm 2.00 to 19.99 mS/cm 20.0 to 199.9 mS/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 °C (pH range) 0.0 to 100.0°C (EC range)
	Resolution
ORP 0.1 mV (±699.9 mV) / 1 mV (±2000 mV)	
EC 0.01 μS/cm 0.1 μS/cm 1 μS/cm 0.01 mS/cm 0.1 mS/cm	
TDS 0.01 ppm 0.1 ppm 1 ppm 0.01 ppt 0.1 ppt	
Temp. 0.1°C	
Accuracy (at 25°C/77°F)	pH ± 0.01 pH / ± 0.002 pH
	ORP ± 0.2 mV up to ± 699.9 mV ± 1 mV up to ± 2000 mV
	EC ±1% f.s.
	TDS ±1% f.s.
	Temp. ±0.5 °C
Calibration	pH Up to 3-point calibration, 5 buffer available (4.01, 6.86, 7.01, 9.18, 10.01 pH)
	EC Offset at 0.00 μS/cm; Slope at 1 point with 6 memorized values (84.0, 1413 μS/cm; 5.00, 12.88, 80.0, 111.8 mS/cm) or with custom value
Probes (included)	AD1131B - Refillable, glass body pH electrode with double junction, BNC connector and 1 m cable; AD76309 - Stainless steel, 4-ring EC/TDS/Temperature probe with DIN connector and 1 m cable; AD7662 - Stainless steel temperature probe with 1 m cable
Power supply	12 Vdc power adapter
Dimensions	230 x 180 x 50 mm
Weight	1.8 kg

AD8000 is supplied with

AD1131B - Refillable glass body pH electrode with BNC connector and 1 m cable; **AD76309** - EC/TDS/Temperature probe with built-in temperature sensor; **AD7662** - Stainless steel temperature probe with 1 m cable; Electrode holder; **AD70004** - pH4 calibration solution in sachet (20 ml); **AD70007** - pH7 calibration solutions in sachet (20 ml); **AD70031** - 1413 μS/cm calibration solutions in sachet (20 ml); **AD70030** - 12.88 mS/cm calibration solutions in sachet (20 ml); 12 Vdc power adapter; Instruction manual.

GLP

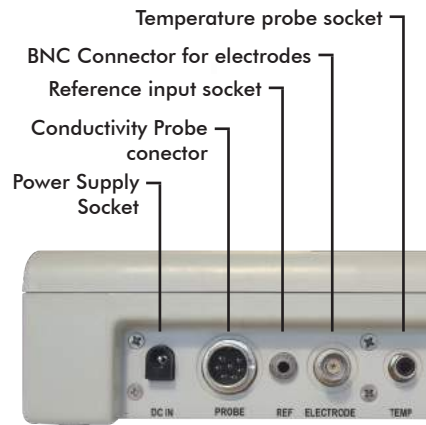
GLP is a set of functions that allow data storage (and retrieval) about the electrode status and maintenance. All data regarding pH, relative mV and EC calibrations are stored in the instrument memory.

Autoranging

The EC and TDS scales are autoranging. The meter automatically sets the scale with the highest possible resolution.

EC/TDS/Temperature and pH electrode included

The AD8000 comes with the AD76309 EC/TDS/Temperature probe with a built-in temperature sensor, with the AD1131B refillable, glass body pH electrode and with the AD7662 stainless steel temperature probe.



Hold Function

Freeze the first stable reading on the LCD.



Optional ORP electrode

- AD3230B Gel filled combination ORP electrode with platinum contact



Optional electrode holder

- AD9315 is an adjustable arm with great stability and flexibility

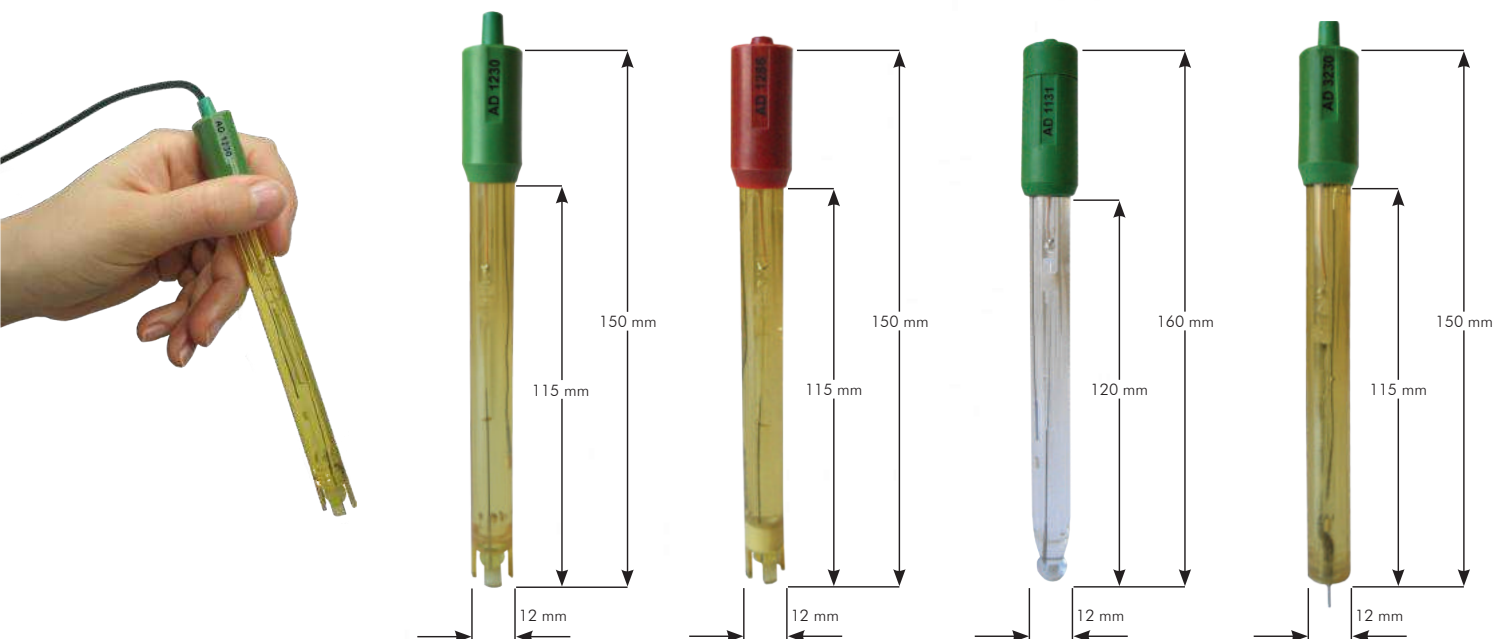
Accessories

- AD1131B** - pH electrode
- AD1230B** - pH electrode
- AD1286** - pH electrode
- AD3230B** - Combination ORP electrode
- AD76309** - EC/TDS/Temperature probe with built-in temperature sensor
- AD7662** - Temperature probe
- AD7000** - Rinse solution, 20 ml sachet (230 ml bottle)
- AD7004** - pH 4.01 calibration solution (230 ml bottle)
- AD7007** - pH 7.01 calibration solution (230 ml bottle)
- AD7010** - pH 10.01 calibration solution (230 ml bottle)
- AD7030** - 12.88 mS/cm EC standard solution (230 ml bottle)
- AD7031** - 1413 μS/cm EC calibration solution (230 ml bottle)
- AD7032** - 1382 ppm calibration solution (230 ml bottle)
- AD7033** - 84 μS/cm calibration solution (230 ml bottle)
- AD7034** - 80000 μS/cm calibration solution (230 ml bottle)
- AD7035** - 111800 μS/cm calibration solution (230 ml bottle)
- AD7039** - 5000 μS/cm calibration solution (230 ml bottle)
- AD7020** - ORP test solution, 200/275 mV (230 ml bottle)
- AD70300** - Electrode storage solution (230 ml bottle)
- AD7061** - Electrode cleaning solution (230 ml bottle)
- AD7082** - Electrode refillable solution 3.5 M KCl (30 ml bottle, 4 pcs.)
- AD7082S** - Electrode refillable solution 3.5 M KCl (30 ml bottle)
- AD9315** - Electrode holder










Electrodes, Probes and other Accessories see on page 18; Calibration, Rinse and other solutions see on page 20

ACCESSORIES

Electrodes and Probes



	AD1230B	AD1286	AD1131B	AD3230B
Description	Combination pH electrode	pH electrode	Refillable, combination pH electrode	Gel filled, combination ORP electrode with platinum contact
Reference	Double, Ag/AgCl	Double Ag/AgCl	Double Ag/AgCl	Single Ag/AgCl
Junction/Flow rate	Ceramic, single / 15-20 μ L/H	PTFE	Ceramic, single / 15-20 μ L/H	Ceramic, single
Electrolyte	Gel	Polymer	KCl 3.5M	Gel
Max. Pressure	2 bar	3 bar	0.1 bar	2 bar
Range	pH: 0 to 13	pH: 0 to 13	pH: 0 to 13	ORP: \pm 2000mV
Recommended Operational Temperature	0 to 70°C (32 to 158°F)	0 to 80°C (32 to 176°F)	0 to 100°C (32 to 212°F)	-5 to 70°C (23 to 158°F)
Tip/Shape	Spheric (dia: 7.5 mm)	Spheric (dia: 7.5 mm)	Spheric (dia: 9.5 mm)	Platinum pin
Temperature Sensor	No	No	No	No
Body Material	PEI	PEI	Glass	PEI
Cable	Coaxial: 1m (3.3')	Coaxial: 2m (6.6')	Coaxial: 1m (3.3')	Coaxial: 1m (3.3')
Connector	BNC	BNC	BNC	BNC

	AD76309	4 RING STAINLESS STEEL CONDUCTIVITY/TDS PROBE WITH INTERNAL TEMPERATURE SENSOR AND 1 METER LONG CABLE
	AD7632	CONDUCTIVITY PROBE WITH 2 METERS LONG CABLE FOR ECO406
	AD7634	TDS PROBE WITH 2 METERS LONG CABLE AND WITHOUT CONNECTOR FOR ECO407
	AD7662	STAINLESS STEEL TEMPERATURE PROBE WITH 1 METER LONG CABLE. SUPPLIED WITH BENCHTOP AND PORTABLE METERS
	AD8001/3	GALVANIC DO PROBE WITH BUILT-IN TEMPERATURE SENSOR, DIN CONNECTOR AND 3 METERS LONG CABLE FOR AD630
	AD11P	REPLACEABLE pH/TEMP ELECTRODE FOR AD11 AND AD12
	AD14P	REPLACEABLE pH/ORP/TEMPERATURE ELECTRODE FOR AD14
	AD32P	REPLACEABLE EC/TDS/TEMP ELECTRODE FOR AD31 & AD32
	AD33P	REPLACEABLE EC/TEMP ELECTRODE FOR AD33, AD34, AD35 & AD36

ACCESSORIES

Other accessories

	<p>AD8001 A/P</p>	<p>SPARE MEMBRANES WITH O-RING (5 PCS) FOR AD8001/3 DO GALVANIC PROBE</p>
	<p>AD9315</p>	<p>ELECTRODE HOLDER FOR BENCHTOP METERS</p>
	<p>AD9316</p>	<p>APPLICATION SOFTWARE FOR BENCHTOP METERS AND WATERPROOF PORTABLE METERS</p>
	<p>AD9335</p>	<p>EUROPEAN ADAPTER FOR BENCHTOP METERS WITH EURO PLUG (TYPE C) INPUT: 220 VAC OUTPUT: 12 VDC</p>
	<p>AD9336</p>	<p>US ADAPTER FOR BENCHTOP METERS WITH US PLUG (TYPE A) INPUT: 110 VAC OUTPUT: 12 VDC</p>
	<p>AD9337</p>	<p>AUSTRALIAN ADAPTER FOR BENCHTOP METERS WITH AUSTRALIAN 2 PIN PLUG (TYPE I) INPUT: 230-240 VAC OUTPUT: 12 VDC</p>
	<p>AD9338</p>	<p>UK ADAPTER FOR BENCHTOP METERS WITH UK PLUG (TYPE G) INPUT: 230 VAC OUTPUT: 12 VDC</p>
	<p>AD9345</p>	<p>HARD CARRYING CASE FOR ADWA WATERPROOF PORTABLE METERS (AD130, AD131, AD132, AD330, AD331, AD332, AD630) DIMENSIONS: 400 mm x 300 mm x 100 mm</p>
	<p>AD9350</p>	<p>HARD CARRYING CASE FOR ADWA STANDARD PORTABLE METERS (AD110, AD111, AD310, AD410) DIMENSIONS: 240 mm x 180 mm x 80 mm</p>
	<p>AD9551</p>	<p>RS232 SERIAL COMMUNICATION CABLE</p>

CALIBRATION AND OTHER SOLUTIONS

calibration solutions are made from established formulas. The pH calibration solutions are available in 230ml durable plastic bottles and are economical and convenient for laboratory use, or in 20 ml sachets for quick, accurate and convenient calibrations. All of our pH, Conductivity, TDS and ORP calibration solutions have a lot number and expiration date printed on them. Cleaning solutions and storage solutions are also available.



CODE	DESCRIPTION	CODE	DESCRIPTION
AD70000P	Electrode rinse solution, 20 ml sachet in box of 25 pcs.	AD7032	1382 ppm buffer solution in 230 ml
AD70004P	pH 4.01 buffer solution, 20 ml sachet in box of 25 pcs.	AD7033	84 µS/cm calibration solution in 230 ml bottle
AD70007P	pH 7.01 buffer solution, 20 ml sachet in box of 25 pcs.	AD7034	80000 µS/cm calibration solution in 230 ml bottle
AD7000	Electrode rinse solution in 230ml bottle	AD7035	111800 µS/cm calibration solution in 230 ml bottle
AD70010P	pH 10.01 buffer solution, 20 ml sachet in box of 25 pcs.	AD7039	5000 µS/cm calibration solution in 230 ml bottle
AD70030P	12.88 mS/cm calibration solution, 20 ml sachet in box of 25 pcs.	AD7040	Zero oxygen solution, supplied in carton box with dry chemical reagent, 12 g (AD7040-1) and solvent in bottle 500 ml (AD7040-2); CERTIFICATE included
AD70031P	1413 µS/cm calibration solution, 20 ml sachet in box of 25 pcs.	AD7442	1500 ppm TDS buffer solution in 230 ml bottle
AD70032P	1382 ppm calibration solution, 20 ml sachet in box of 25 pcs.	AD70442P	1500 ppm calibration solution, 20 ml sachet in box of 25 pcs.
AD7004	pH 4.01 buffer solution in 230 ml bottle	AD7061	Electrode cleaning solution in 230 ml bottle
AD7007	pH 7.01 buffer solution in 230 ml bottle	AD7071S	Electrode refillable solution 3.5 M KCL + AgCl, 30ml
AD7010	pH 10.01 buffer solution in 230 ml bottle	AD7082S	Electrode refillable solution 3.5 M KCL 30ml
AD7020	ORP test solution (200/275 mV) , 230 ml bottle	AD7082	Electrode refillable solution 3.5 M KCL, 4 X 30ml
AD70300	Electrode storage solution in 230 ml bottle	AD9072S	Electrolyte solution for DO galvanic probe in 30 ml bottle
AD7030	12.88 mS/cm buffer solution in 230 ml bottle	AD9072	Electrolyte solution for DO galvanic probe, 4 X 30ml
AD7031	1413 µS/cm buffer solution in 230 ml bottle		

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