

# 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