

## HD2305.0



### HD2305.0 PORTABLE pH METER

HD2305.0 is a portable instrument with LCD display. It measures the pH and the redox potential (ORP) in mV. It measures the temperature by using Pt100 or Pt1000 immersion, penetration, contact or air probes. The electrode calibration can be carried out on one, two or three points at 4.01pH, 6.86pH and 9.18pH.

The temperature probes are equipped with the automatic recognition SICRAM module which contains the factory calibration data stored inside.

The **Max**, **Min** and **Avg** function calculate the maximum, minimum or average values.

Other functions include: the relative measurement REL, the Auto-HOLD function, and the automatic turning off that can also be excluded.

The instruments have IP67 protection degree.

INSTRUMENT TECHNICAL CHARACTERISTICS	
<b>Measurement of pH by Instrument</b>	
Measurement range	-2.00...+19.99pH
Resolution	0.01
Accuracy	±0.01pH ±1digit
Input impedance	>10 <sup>12</sup> Ω
Calibration error @25°C	Offset  > 20mV Slope < 50mV/pH or Slope > 63mV/pH Sensitivity < 85% or Sensitivity > 106.5%
Temperature compensation automatic/manual	-50...+150°C

<b>Measurement of mV by Instrument</b>	
Measurement range	-1999.9...+1999.9mV
Resolution	0.1mV
Accuracy	±0.1mV ±1digit
Drift after 1 year	0.5mV/year
<b>Measurement of temperature by Instrument</b>	
Pt100 measurement range	-200...+650 °C
Pt1000 measurement range	-200...+650 °C
Resolution	0.1°C
Accuracy	±0.1°C ±1digit
Drift after 1 year	0.1°C/year
<b>Measured quantities</b>	<b>pH - mV - °C - °F</b>
<b>Alimentazione</b>	
Batterie	3 batterie 1.5V tipo AA
Autonomia	200 ore con batterie alcaline da 1800mAh
<b>Connections</b>	
Input module for temperature probes	8-pole male DIN45326 connector
pH/mV input	Female BNC
Power absorbed with instrument off	< 20µA
<b>Working conditions</b>	
Operating temperature	-5 ... 50°C
Storage temperature	-25 ... 65°C
Working relative humidity	0 ... 90% RH without condensation
<b>Protection Degree</b>	<b>IP66</b>
<b>Instrument</b>	
Dimensions (Length x Width x Height)	140 x 88 x 38 mm
Weight	160g (complete with batteries)
Materials	ABS
Display	2x4½ digits plus symbols Visible area: 52x42mm

#### ORDERING CODES

**HD2305.0:** The kit is supplied with: instrument HD2305.0, 3 1.5V alkaline batteries, operating manual, case.

Electrodes, calibration solutions and temperature probes have to ordered separately.

#### Accessories

**KP30:** Gel pH combined electrode for general use, 1m cable with BNC, EPOXY body .

**CP:** 1.5m extension cable with BNC/S7 connector for electrode without cable, thread S7.

**BNC:** female BNC for extension cable

**HD8600C:** ACCREDIA ISO 17025 certified buffer solutions kit: pH 4.01+ pH 7.00 + pH 10.01. Two 50 ml bottles for each type (6 bottles in total).

**HD22.2:** Laboratory electrode holder composed of base plate with built-in magnetic stirrer, shaft and replaceable electrode hold-er. Suitable diameter 12mm. It holds up to 5 electrodes at the same time. Powered by power supplier SWD10 (optional).

**HD22.3:** Laboratory electrode holder composed of base plate. Flexible arm for free positioning. Suitable for electrodes with diameter 12mm. It holds up to 5 electrodes at the same time.

Temperature probes of the series TP87 and TP47... are suitable.