

HD Series

Portable instruments for measuring Conductivity, pH, Redox and Temperature



Features

- Simple to use
- Competitively Priced
- IP67 Protection
- Auto power off
- Process and temperature readings
- Automatic temperature compensation
- Maximum, minimum and average function
- Suitable for use in laboratories, industrial applications and are ideal for service engineers

HD2306.0 Conductivity Meter

The HD2306.0 portable conductivity meter is supplied complete with a combined 4-electrode conductivity and temperature sensor covering a measuring range of 0µS/cm to 200mS/cm with a cell constant K=1.0 and also has automatic range change. The HD2306.0 conductivity meter has automatic temperature compensation using a PT100 temperature compensator which is built into the conductivity cell. The temperature compensation can be set to a base of 20°C or 25°C and can also be set to out. There is a choice of automatic or manual calibration and the option of Auto power off. The HD2306.0 is powered by 3 x 1.5v type AA batteries. The kit is supplied in a protective carrying case with a 12,880 µS/cm standard solution.

The HD2306.0 can display conductivity in µS/cm or mS/cm, resistivity in MΩ/cm, KΩ/cm or Ω/cm, TDS in mg/l or g/l and also Salinity

The instrument has IP67 protection and has a function to calculate the maximum, minimum & average values.

The measuring instrument and a series of interchangeable probes make the unit ideal for use in applications where there is the need for precise and fast conductivity and temperature measurements of liquids in laboratories as well as industrial applications and are ideal for service engineers.

Specifications: HD2306.0

Display:

LCD with 2 x 4¹/₂ digits plus symbols, visible area 52 x 42mm

Conductivity Measuring ranges:

0–19.99 µS/cm (K=0.1)
0–199.9 µS/cm (K=1.0)
200–1999 µS/cm (K=1.0)
2.00–19.99 mS/cm (K=1.0)
20–199.9 mS/cm (K=1.0)
200–1999 mS/cm (K=10.0)

Resistivity Measuring ranges:

0.5–5.0 Ω/cm (K=0.1)
5–199.9 Ω/cm (K=1.0)
200–999 Ω/cm (K=1.0)
1.00–19.99 KΩ/cm (K=1.0)
20–99.99 KΩ/cm (K=1.0)
100–999 KΩ/cm (K=1.0)
1–10 MΩ/cm (K=1.0)

Total Dissolved Solids

Measuring ranges:

0–19.99 mg/l (K=0.1)
0–199.9 mg/l (K=1.0)
200–1999 mg/l (K=1.0)
2.00–19.99 g/l (K=1.0)
20–99.9 g/l (K=1.0)
100–999 g/l (K=10.0)

TDS Conversion factor:

0.4 to 0.8

Cell Constants (K):

0.1, 0.7, 1.0 & 10.0

Standard Solutions

Automatically Detected:

147 µS/cm, 1413 µS/cm,
12880 µS/cm, 111,800 µS/cm

Temperature measuring range:

From -50°C to 200°C.
(PT100 or PT1000 sensor)

Accuracy:

±0.5% full scale
(Conductivity, Resistivity & TDS)
±0.25°C full scale

Temperature compensation slope:

Automatic between t = 0.00
and t = 4.00%/°C.

Reference temperature:

20 or 25°C

Instrument working temperature:

-5 to 50°C.

Working temperature of the probe SP06T:

0–90°C.

Working Relative Humidity:

0–90% RH without condensation

Storage temperature:

-25 to +65°C.

Protection Degree:

IP67

Power supply:

3 x 1.5v AA batteries, IEC6LF22,
200 hours duration with 1800mAh
alkaline batteries.

Instrument Dimensions:

42 x 185 x 23 mm, weight 130 grams.

Kit dimensions:

430 x 240 x 65 mm, weight 1.5kg.

HD2305.0 pH/Redox Meters

The HD2305.0 portable instrument is capable of measuring pH, temperature and Redox when used with the correct sensor and has automatic or manual temperature compensation.

There is an option of Auto power off. The HD2305.0 is powered by 3 x 1.5v type AA batteries.

The kit is supplied in a protective carrying case complete with two buffer solutions, a pH electrode and a temperature probe. A Redox electrode can be ordered as an additional option if required.

The electrode calibration can be carried out on one, two or three points at 4.01pH, 6.86pH and 9.18pH.

The instrument has IP67 protection and has a function to calculate the maximum, minimum & average values.

Specifications: HD2305.0

Display:

LCD with 2 x 4¹/₂ digits plus symbols,
Visible area 52 x 42mm

Measuring ranges:

pH: -2.00–19.99;
mV: -1999–+1999;
Temperature: -50.0–+200°C

Accuracy:

pH measurement ± 0.01 pH ± 1 digit
mV measurement ± 0.1 mV
Temperature measurement ± 0.1 °C

Working temperature:

-5 to +50°C

Working Relative Humidity:

0–90% RH without condensation

Storage temperature:

-25 to +65°C.

Protection Degree:

IP67

Power supply:

3 x 1.5v AA batteries, IEC6LF22,
200 hours duration with 1800mAh
alkaline batteries.

Instrument Dimensions:

42 x 185 x 23 mm, weight 130 grams.

Kit dimensions:

430 x 240 x 65 mm, weight 1.5kg.

Order Codes

Type No	Part No	Description
HD2306.0	1006	Portable Conductivity meter, complete with SP06T combination conductivity & temperature cell and calibration solution in a carrying case.
SP06T	1764	Combined conductivity cell & temperature probe with 4 electrodes and fitted with 1.5 Metres of connection cable. Cell Constant K=0.7.
HD8712	138/172	Conductivity calibration solution, 12,880 $\mu\text{S}/\text{cm}$ at 25°C. 200cc Bottle.
HD2305.0	2080	pH, Redox & temperature measurement instrument, complete with pH and separate temperature electrodes, 4.01pH & 6.86pH buffer solutions & carrying case.
KP30	138/024	pH Combined electrode with Epoxy body, 1 Metre cable fitted with BNC connector.
KP91	138/065	Redox electrode with Epoxy body, 1 Metre cable fitted with BNC connector.
TP87	138/105	PT100 Temperature sensor.
HD8642	138/192	4.01 pH Buffer solution, 200cc bottle.
HD8672	138/193	6.86 pH Buffer solution, 200cc bottle.



These products comply with current European Directives

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