

SD 300 pH (IP 67 waterproof)



Waterproof Hand-held Meter for pH/Redox/Temperature

Highlights

- Rugged, water resistant (IP 67) designed for field use
- PC interface for data download (USB / serial or analog)
- Automatic buffer detection for calibration
- Data logger and alarm function (min./max.)
- Good Laboratory Practice (GLP-features)
- Clear, concise result reading: easy-to-read backlit LCD display
- Automatic temperature compensation
- High resolution (0.001 pH / 0.1 mV)

Applications

- Drinking Water
- Cooling/Boiler Water
- Waste Water
- Pool Water
- Surface Water

Features

Min / Max Value Memory

highest and lowest measured value is saved

Auto Hold

freeze and display measurement

Auto Power Off

if unused, the meter automatically switches off after a selected period (0 to 120 min, or deactivated)

Additional Display for pH Electrode and Battery

Bar graph display

Low Battery Display "BAT"

Automatic Temperature Compensation

Automatic Temperature Compensation (ATC) in pH mode (in the range of 0 - 105 °C) when the temperature probe is connected.

Temperature can be input manually, when the temperature probe is not attached.

pH Calibration

Automatic Buffer Recognition.

Permissible electrodes' data: Asymmetry:

± 55 mV / Slope: 45 ... 62 mV/pH

The condition of pH Electrode is checked at each calibration.

1, 2 or 3 point calibration with Lovibond® Standard Buffer, DIN 19266 Buffer or any manually entered Buffer values.

Redox Measurement (ORP)

2 options:

"mV" Standard Redox or mV measurement

"mVH" Conversion to hydrogen systems according to DIN38404 Part 6

rH Measurement

The rH value is calculated from a measured Redox value and a manually input pH value

Technical Data

Measuring ranges

pH - 2.000 ... 16.000 pH

Redox / mV - 2000.0 ... 2000.0 mV

Temperature - 5.0 ... + 150.0 °C
+ 23.0 ... + 302.0 °F

rH 0.0 ... 70.0 rH

Accuracy

pH ± 0.005 pH

Redox / mV ± 0.05 % FS (mV or mVH)

Temperature ± 0.2 °C
- 5.0 ... + 100.0 °C)

rH ± 0.1 rH

Connections

pH, Redox BNC female connector, compatible to standard BNC plugs and waterproof BNC plugs, additional banana-jack (4 mm) for separate reference electrode input resistance: 10¹² Ohm

Temperature 2 banana jacks (4 mm) for temperature probe (Pt1000 or NTC 10K)

Interface / Supply 4-pole bayonet connector for serial interface and supply (with accessory USB 300)

Display two 4.5 - digit seven-segment display (15 mm and 12 mm)

pH Calibration

Automatically 1, 2 or 3 point calibration, Lovibond® Standard Buffer or Buffer to DIN19266

Manually 1, 2 or 3 point calibration

Protection class IP67 (housing and connections)

Dimensions 160 x 86 x 37 mm (H x W x D) incl. protection cover

Weight 250 g incl. battery and protective armouring

Housing impact resistant ABS housing with pop-up clip

Armouring Shock-absorbing protective armouring

Power supply 2 x AAA-battery (included) power consumption: < 1.0 mA

Battery life 1000 hours

Accessories

Code	Article
721230BNC	pH/temp.-electrode type 230 plastic/gel/temperature NTC30kOhm (SET 1)
721225BNC	pH-electrode plastic/gel-type 225 (SET 2)
721235BNC	pH-electrode glass/gel-type 235
721240BNC	Redox-electrode plastic-type 240
721245	PT1000Temperature sensor (SET 2)
418609	KCl-solution, 3 molar saturated with AgCl, 100 ml
721250	pH buffer-set 4.00/7.00/10.00 (25°C)
721252	pH buffer 4.00 (25°C) 1 litre
721254	pH buffer 7.00 (25°C) 1 litre
721256	pH buffer 10.00 (25°C) 1 litre
195070	Redox calibration solution, 470 mV, 100 ml
724620	USB 300 cable, for connection to a computer
724625	GSOFT 3050 data transmission software with logger for setting, reading and printing of stored data
725060	Case with foam inlet

Delivery Content

Order Code: 724600

SD 300 pH

without electrode, with batteries, protective armouring, instruction manual, guarantee sheet

Order Code: 724610

SD 300 pH (SET 1)

instrument, batteries, pH/temp. plastic-electrode type 230, pH-buffer-set (pH 4.00/7.00/10.00), in case, manual, guarantee sheet

Order Code: 724611

SD 300 pH (SET 2)

as SET1, but with pH / temperature plastic-electrode type 225, temperature sensor Pt 1000, manual, guarantee sheet



SD 300 pH im Koffer