



pH/mV/°C METER, BENCH, PHENOMENAL® pH 1100 L, VWR®

This user friendly instrument, with articulated electrode stand and IP 43-rated housing, provides high resolution and accuracy for precise measurements. Complete with USB output for connection to a computer. GLP compliant.

- Large graphic LCD with continuous LED backlight showing both pH/mV and temperature value simultaneously
- Data logging function selectable between 1 min and 1 h; memory capacity of 5000 data sets
- Automatic power shut-off: Adjustable from 10 min to 24 h
- Automatic buffer recognition of DIN and NIST buffers (1,68 / 4,00 / 6,86 / 9,18 / 12,54)
- Three additional technical buffers at 25 °C (4,00 / 7,00 / 10,00) in memory
- Advanced self-test and diagnostics (electrode efficiency diagnostic, drift control); calibration symbol shows when recalibration is required
- Low energy consumption. Choice of mains supply or 4× AA batteries for over 1000 operating hours
- Low battery indicator

Ready to use pH 1100 L kit includes instrument, glass pH electrode with built-in 221 temperature sensor, 1 m cable and articulated stand, 2× buffers (4,00 / 7,00), plastic beaker and instruction manual (22 languages) on CD ROM.

The life science kit pH 1100LB includes the LS 221 Biotech electrode with 1 m cable instead of the 221 electrode.

Model	pH 1100LB
pH range	-2,000...+20,000
pH resolution	0,1 / 0,01 / 0,001 (selectable)
pH accuracy	±0,1 / ±0,01 / ±0,005
pH calibration	Up to 5 points
Automatic buffer recognition	VWR® Chemicals TITRINORM® buffers at 25 °C: 4,00 / 6,98 / 9,94 NIST / DIN 19266 (1,68 / 4,00 / 6,86 / 9,18 / 12,54) Technical buffers at 25 °C: 4,00 / 7,00 / 10,00
mV range	±1200,0 / ±2500
mV resolution	0,1 / 1 (selectable)
mV accuracy	±0,3 / ±1
Temperature range	Auto: -5,0...+105,0 °C; manual: -25...+130 °C
Temperature resolution	0,1/1 °C
Temperature accuracy	±0,2 °C
Temperature compensation	Auto / manual
Data logging capacity	5000 data sets
Data logging - log function	Selectable between 1 min and 1 h (selectable intervals: 1 s, 5 s, 10 s, 30 s, 1 min, 5 min, 10 min, 15 min, 30 min, 60 min)
Display	Graphic LCD with LED backlight
Connections	BNC for pH / banana for temperature
Power supply	Mains or 4× AA batteries
Compliance	IP 43 / GLP
Outputs	USB connection (slave, bidirectional)

Description	Pk	Cat. No.
Bench pH/mV/°C meter pH 1100LB, pHenomenal, with LS 221 electrode for biotech applications	1 SET	662-1861

Description	Pk	Cat. No.
Accessories		
pHenomenal electrode stand, holds up to 4 electrodes + 1 temperature sensor	1	662-1169
Potassium chloride 3 mol/L (3 N) in aqueous solution AVS TITRINORM	100 ml	83605.180
Electrode cleaning solutions		
Electrode cleaning solution pepsin/hydrochloric acid for removal of proteins	100 ml	83603.180