

## *pH 301 GLP Bench Top pH/mV/Ion/°C Meter*



This meter includes all the basic features standard as well as direct ion strength measurement in ppm. In addition, the resolution of the pH range has been extended to 0.001 pH. For routine operations, the operator can still choose to use the 0.01 pH resolution.

- GLP bench top pH/mV/Ion/°C meter

The pH calibration can be performed at 1, 2 or 3 points with 6 memorized pH values (pH 1.68, 4.01, 6.86, 7.01, 9.18 and 10.01). In the ISE mode, the user can choose between readings in mV or direct concentration in ppm. Calibration can be performed at 1 or 2 points with 5 memorized concentration values (0.1, 1, 10, 100 and 1000 ppm). During pH and ISE calibration the time (hours and minutes) is stored in nonvolatile memory together with the date and data. Similar to the pH mode, the ISE calibration time, date and data can be recalled, to meet GLP requirements.

The opto-isolated RS232 is bidirectional, so that the user can operate the meter from the computer keyboard. The meter's logging function can be used in the pH, mV and ISE modes. The logging interval is user-selectable (1, 15 or 30 seconds and 1, 5, 30, 60, 120 or 180 minutes). The memory is capable of retaining up to 99 different lots of up to 8000 samples.

This meter is supplied complete with glass-body combination electrode, temperature probe, 12 VDC adapter, pH 4.01, 7.01 and 10.01 buffer solutions (20 ml each) and instruction manual.

### Specifications

<b>Range:</b>	
pH	-1.999 to 19.999
mV	±1999.9
°C	-9.9° to 120.0°
ppm	0.001 to 19999
<b>Resolution:</b>	
pH	0.01 & 0.001
mV	0.1
°C	0.1°
ppm	0.001; 0.01; 0.1; 1
<b>Accuracy at 20°C/68°F:</b>	
pH	±0.002
mV	±0.1 (±799.9); ±0.2 (±1999.9)
°C	±0.5°
ppm	±0.5% F.S.
<b>Typical EMC Deviation:</b>	
pH	±0.01
mV	±0.3
°C	±0.5°
ppm	±1% F.S.
<b>pH Calibration</b>	1, 2 or 3 points with 6 memorized buffers (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01)
<b>ISE Calibration</b>	1 or 2 points with 5 memorized values (0.1, 1, 10, 100, 1000 ppm)
<b>Temperature Compensation</b>	Automatic or manual, for pH only, from -9.9° to 120°C (14° to 248°F)
<b>Logging Interval</b>	1, 15 and 30 sec; 1, 5, 30, 60, 120 and 180 min
<b>Memory</b>	8000 samples
<b>Input Impedance</b>	10 <sup>12</sup> Ω
<b>Inputs</b>	BNC / Reference / ATC
<b>Output</b>	Bi-directional RS232 opto-isolated
<b>Electrode</b>	combination, glass body, refillable, BNC connector
<b>Temperature Probe</b>	thermistor type with 1 m (3.3 ft) cable
<b>Power Supply</b>	12 VDC adapter (CSA, UL and CE approved)
<b>Environment</b>	0° to 50°C (32° to 122°F); 95% RH max
<b>Dimensions, H x W x D</b>	75 x 280 x 200 mm (3 x 11 x 7.9 in)
<b>Weight</b>	1.3 kg (2.9 lb), approx.

### Catalog No. Product

<b>CGS 8597.78</b>	GLP Bench Top pH/mV/Ion/°C Meter
<b>CGS 8598.78</b>	Accessory Kit Electrode Holder, Windows® Compatible Software, PC Connection Cable, Rinsing (5 x 20 ml Sachets), Storage, Cleaning and Electrolyte Solutions and a Refilling Pipette
<b>CGS 8599.78</b>	Combination, Refillable pH Electrode
<b>CGS 8600.78</b>	Combination Platinum ORP Electrode
<b>CGS 8601.78</b>	Calibration Kit, pH 4 and 7, 20 ml, 5 pcs. each
<b>CGS 8602.78</b>	Voltage Adapter, 110 VAC to 12 VDC
<b>CGS 8603.78</b>	Voltage Adapter, 220 VAC to 12 VDC
<b>CGS 8604.78</b>	Electrode Holder
<b>CGS 8605.78</b>	Temperature Probe
<b>CGS 8606.78</b>	Windows® Compatible Software
<b>CGS 8607.78</b>	PC Connection Cable