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# ORION Model 420A Simple pH/mV/ORP/Temperature Benchtop Meter

- Autocalibration with Choice of 3 Buffers
- ROSS Resolution(tm) to 0.001 pH Units
- Simultaneous pH and Temperature Display



The Orion 420A is a benchtop meter that gives you the basics for fast, accurate pH measurement. This system is ideal for a busy, multi-user laboratory or plant environment. Calibration is fast, easy and accurate with autocalibration using built-in Auto-Buffer-Recognition, built-in buffer/temperature tables, and automatically calculated and displayed electrode slope value. The mV mode makes ORP measurements fast and reliable.

The mV mode makes ORP measurements fast and reliable.

The Model 420A is equipped with RS232 communications that allow the user to record data using the optional Orion **Model 900A Printer** or a computer.

## Specifications:

### pH

Range: -2.000 to 19.999

Resolution: 0.001/0.01/0.1 pH

Relative Accuracy: +/- 0.005

Slope: 80 to 120%

Auto-Buffer Recognition: 4.01, 7.00, 10.01

### Temperature

Range: -5.0 to 105.0 C

Resolution: 0.1 C

Relative Accuracy: +/- 1.0 C

### Millivolts

Model 420A pH Meter

Range: +/- 1600.0 mV

Resolution: 0.1 mV

Relative Accuracy: +/- 0.2 mV or +/- 0.05% of reading, whichever is greater

### **Relative Millivolts**

Range: +/- 1999.9 mV

Resolution: 0.1 mV

Relative Accuracy: +/- 0.2 mV or +/- 0.05% of reading, whichever is greater

### **Display**

Custom LCD

### **Inputs**

One BNC, one pin tip, ATC, power

### **Outputs**

RS232

### **Power Requirements**

AC Line, 110 V, 220 V or 240 V

### **Agency Approvals**

CE, CSA, UL

### **Environmental Requirements**

5 to 45 C and 5 to 85% relative humidity, non-condensing

### **Meter Dimensions**

9.1 x 7.6 x 2.0 inches (w, l, d)

### **Case**

Dust and splash resistant, chemical resistant

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## **ORDERING INFORMATION**

### **Orion Catalog No. and Description**

**0420A0** Model 420A Benchtop pH Meter, Includes ORION 9157BN Triode(tm) 3 in 1 combination pH electrode, 110 V wall adaptor, and instruction manual.

**0420A1** Model 420A Benchtop pH Meter, Includes ORION 9157BN Triode(tm) 3 in 1 combination pH electrode, 220 V wall adaptor, and instruction manual.

**0420A2** Model 420A Benchtop pH Meter, includes instruction manual only (no other accessories).



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