

# Orion PerpHecT® LogR™ Temperature Compensation Meters

## LogR temperature compensation from pH bulb itself – no ATC required!

All PerpHecT benchtop meters feature exclusive Orion digital LogR technology. pH is temperature dependent. Knowing the temperature at which the pH was taken is critical. Any Orion pH electrode can utilize the PerpHecT LogR technology, but its greatest accuracy and precision benefit is with small samples. The sample's temperature is taken by a small pH bulb while measuring the pH. PerpHecT ROSS® packages offer outstanding temperature equilibration and performance features. All meters also offer automatic (with an ATC probe) or manual temperature compensation options as well as a three (3) year warranty.

- Orion 320 PerpHecT benchtop meter features pH or mV and temperature measurement on a large bright display for routine pH testing. Custom buffer option allows you to enter non-standard buffer values.
- Orion 350 PerpHecT benchtop meter has more advanced features, including greater resolution, 3 point calibration, GLPcheck™ electrode verification, RS232 and GLPdoc™ data output.
- Orion 370 PerpHecT benchtop adds ISE (concentration) mode with 2 point calibration for basic ISE capability.

Specifications	370 / 350 / 320
<b>pH</b>	
Range	0.000 - 14.000 / 0.000 - 14.000 / 0.00 - 14.00
Resolution	0.001 to 0.1 / 0.001 to 0.1 / 0.01 to 0.1
Relative Accuracy	± 0.005 / ± 0.005 / ± 0.02
Slope	80 to 120% for all
Auto-Buffer Recognition	4.01, 7.00, 10.01 for all
Cal. Points	3 / 3 / 2
<b>Concentration</b>	
Range	0.000 to 19900 / - / -
Resolution	± 3 significant digit / - / -
Relative Accuracy	± 0.2 mV or ± 0.5 % of reading, whichever is greater / - / -
Cal. Points	2 / - / -
<b>Temperature*</b>	
Range	0.0 to 100.0 °C for all
Rel. Accuracy	± 0.1 °C (ATC) for all ± 0.5 °C (LogR) for all
<b>Millivolt and Relative Millivolt</b>	
Range	±1999.9 mV and RmV / ±1999.9 mV and RmV / ±1999 mV only
LogR™ Range	± 1000.0 mV / ± 1000.0 mV / ± 1000 mV
Relative Accuracy (mV and RmV)	± 0.2 mV or ± 0.05 % of reading, whichever is greater / Same as 370 / ± 1 mV or ± 0.1 % of reading, whichever is greater (mV only)
Display	LED for all
Inputs	1 BNC, 1 pin tip ref, ATC, power for all
Outputs	RS232, 2.5 mm Recorder / Same as 370 / -
Power Requirements	AC Line, 110 V, 220 V or 240 V for all
Agency Approvals	CE, CSA, UL for all
Environmental Requirements	5 to 45 °C, 5 to 85% relative humidity, non-condensing for all

Over 20 °C temperature calibration range PerpHecT LogR temperature measurement and compensation specifications are based on the use of PerpHecT and PerpHecT ROSS brand electrodes. Use of other brand electrodes may impact performance.

Ordering	370 / 350 / 320
110V w/Ag/AgCl pH Elect.	037000 <sup>1</sup> / 035000 <sup>1</sup> / 032000 <sup>3</sup>
220V w/Ag/AgCl pH Elect.	037001 <sup>1</sup> / 035001 <sup>1</sup> / 032001 <sup>3</sup>
110V w/ROSS® pH Elect.	0370A0 <sup>2</sup> / 0350A0 <sup>2</sup> / 0320A0 <sup>4</sup>
220V w/ROSS pH Elect.	0370A1 <sup>2</sup> / 0350A1 <sup>2</sup> / 0320A1 <sup>4</sup>
110V w/GLP Pkg	0370G0 <sup>2,5</sup> / 0350G0 <sup>2,5</sup> / -
220V w/GLP Pkg	0370G1 <sup>2,5</sup> / - / -
110V Meter and Adapter	0370A9 / 0350A9 / 0320A9
220V Meter and Adapter	0370A8 / 0350A8 / 0320A8
240V Meter and Adapter	0370A7 / 0350A7 / 0320A7
110V w/9156AP & Stand	- / - / 032004
220V w/9156AP & Stand	- / - / 032005

**Keys:**

1. 9272BN PerpHecT Glass Sure-Flow® Combination pH
2. 8272BN PerpHecT ROSS Glass Sure-Flow Combination pH
3. 9202BN PerpHecT Glass Combination pH
4. 8202BN PerpHecT ROSS Glass Combination pH
5. Package Includes PRT300 Printer and Cable to connect to PerpHecT Meter

