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Orion 320

PerpHecT[®] basic meter

Put an end to temperature compensation problems with the PerpHecT line of pH meters and electrodes using Orion's patented digital LogR™ technology. Orion PerpHecT meters and electrodes offer three advantages over conventional systems:

- LogR eliminates the need for a separate ATC.
- Any pH electrode can be used to measure temperature, including micro electrodes.
- Fewer pH errors, with the temperature taken at the sensing bulb.



PerpHecT Basic Benchtop pH/mV/ORP/Temperature Meters Orion 320

- Digital LogR Temperature Compensation
- Simultaneous Display of pH or mV (ORP) and Temperature
- Custom Buffer Feature Stores User Defined Buffers

The Orion 320 PerpHecT meter gives you the benchtop pH basics for routine pH measurements plus mV (ORP) mode and selectable pH resolution (0.01/0.1). Calibration is fast and accurate using the autocalibration system with built-in Auto-Buffer-Recognition of three buffers. Temperature compensation can be LogR, automatic (with an ATC probe) or manual. These meters

are also available with a premium PerpHecT ROSS™ electrode. Custom buffer option allows you to enter non-standard buffer values for accurate measurement over the entire pH range. The Orion 320 may be packaged with the Orion AquaPro pH electrode (Cat. No. 9156APWP) and a swing arm stand for biotech and other applications. Three (3) year meter warranty.

Orion 320

Orion 320 Specifications

		Specification	Benefit
pH	Range	0.00-14.00	Measure pH in any sample
	Resolution	0.1/0.01	
	Relative Accuracy	± 0.02	
	Slope	80 to 120%	
	Auto-Buffer-Recognition	4.01, 7.00, 10.01	Increase productivity
	Calibration Points	2	Bracket your sample's pH—Improved accuracy
Temperature	Range	0.0-100 °C	Temperature without an ATC
	Resolution	0.1 °C	
	Rel. Accuracy ATC	± 0.1 °C	
	Rel. Accuracy LogR™ (*)	± 0.5 °C	Superior to ATC probes
Millivolt	Range	± 1999 mV	
	LogR Range	± 1000 mV	
	Resolution	1 mV	
	Relative Accuracy	± 1 mV or ± 0.1% of reading, whichever is greater	
Display		LED	Easy to view
Inputs		BNC, pin tip ref, ATC, Power	
Power Requirements		AC Line, 110 V, 220 V or 240 V	
Agency Approvals		CE, CSA, UL	World wide operation
Environmental Requirements		5 to 45 °C and 5 to 85% relative humidity, non-condensing	

Above data generated under optimal/controlled circumstances.

Orion 320 Ordering Information

Package Includes	Cat. No. for Complete Meter Package	Electrode Cat. No.
110 V w/Ag/AgCl pH Electrode	032000, PerpHecT® Glass Combination pH electrode	9202BN
220 V w/Ag/AgCl pH Electrode	032001, PerpHecT Glass Combination pH electrode	9202BN
110 V w/ROSS™ pH Electrode	0320A0, PerpHecT ROSS Glass Combination pH electrode	8202BN
220 V w/ROSS pH Electrode	0320A1, PerpHecT ROSS Glass Combination pH electrode	8202BN
110 V Meter and Adapter only	0320A9	
220 V Meter and Adapter only	0320A8	
240 V Meter and Adapter only	0320A7	
Meter and Manual only	032002 (Order Plug/Wall adapter separately)	
110V w/Aqua Pro pH electrode and Stand	032004, Aqua Pro pH electrode	9156APWP
220V w/Aqua Pro pH electrode and Stand	032005, Aqua Pro pH electrode	9156APWP

Note: Plug/Wall adapters - 110V (020125), 220V (020130), 240V (020135)