

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)
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