



## Thermo Scientific Orion VERSA STAR 10 & 80

pH and pH with LogR™ Technology Benchtop Meters

Routine pH measurements are quick and easy with the Orion VERSA STAR 10 and 80 pH benchtop meters. The large color display is easy on to read and easy on the eyes. Prompts make accuracy and repeatability easy for even the most complicated testing. If you need to add more channels for more or obtain more parameters from the same, simply remove the protective individual channel cover and add the new module.

The Orion VERSA STAR 10 pH benchtop meter comes complete with a single channel pH module, offering:

- Up to 6 point pH calibration with automatic recognition for USA/NIST and DIN buffers and electrode identification
- The time-saving option to fix errors without a complete recalibration with the calibration editing function

The Orion VERSA STAR 80 pH with LogR technology benchtop meter includes one LogR module, which fits easily into two channel slots. This technology allows for:

- Having all the features of the VERSA STAR 10 pH benchtop meter
- Preventing wasted efforts and time from bad electrodes by offering the most advanced electrode diagnostics
- Using even less of those expensive samples for testing and still getting accurate pH results since LogR technology allows for temperature-compensated pH readings without a temperature sensor

### Features and Benefits

- Versatility is the name of the game
  - Customize the display to show only the information you need
  - Change out modules to create the meter you need at any time
- Anyone can use this meter with its plain language screen prompts, function keys that update for easy selection and a multilanguage interface that supports English, Spanish, French, Italian, German and Chinese
- Don't miss a reading – AUTO-READ™ locks in the stable reading on your screen, ready indicator alerts when readings are stable and timed reading gathers data in specific time intervals or just once with single-shot mode
- Non-volatile memory holds up to 2000 data points with time and date stamp
- Stores up to 10 methods per channel allow for customized procedures to differentiate between tests and/or users
- Two USB and a RS232 port makes for easy data transfer and updating meter software
- Includes data analysis software for easy transferring of stored results or real-time viewing

- Control sample mixing directly from the meter without a separate stir plate when using with the Orion Star stirrer probe (cat. no. 096019, sold separately)
- Increase your productivity – with two Orion stirrer probe ports, add stirrers and modules to analyze two separate samples at the same time
- Included electrode arm and newly-designed probe holder make it easier to maintain and place probes into samples
- Works with almost every AC power source through the included universal power adapter
- IP54-rated housing handles splashes and cleans up easily
- 3 year meter replacement warranty

### Product Specifications – Orion VERSA STAR Meter

| CE   TUV   EPA                 |                    |  |
|--------------------------------|--------------------|--|
| Maximum Number of Modules      |                    | 4  |
| Methods                        |                    | Up to 10   |
| Datalogging                    | Number of Datalogs | 2000 with time and date stamp                            |
|                                | Log Function       | Manual, AUTO-READ™, timed interval, single timed reading |
| Communication Ports            |                    | One RS232, two USB ports (one client, one host)          |
| Orion Star Stirrer Probe Ports |                    | 2  |
| Power                          |                    | Universal, AC power adapter, 90-260 VAC, 50-60 Hz        |





## Product Specifications – pH Module (VSTAR-PH)

| CE   TUV   EPA |                         |  |
|----------------|-------------------------|--|
| pH             | Range                   | -2.000 to 20.000                                   |
|                | Resolution              | 0.1, 0.01, 0.001                                   |
|                | Relative Accuracy       | ±0.002   |
|                | Calibration Points      | Up to 6  |
|                | Calibration Editing     | Yes  |
|                | Adjustable ISO Point    | Yes  |
| mV/Rel mV/ ORP | Range                   | ±2000.0 mV   |
|                | Resolution              | 0.1  |
|                | Relative Accuracy       | ±0.2 mV or ±0.05 % of reading whichever is greater |
|                | E <sub>n</sub> ORP Mode | Yes  |
| Temperature    | Range                   | -5 to 105 °C, 23 to 221 °F                         |
|                | Resolution              | 0.1  |
|                | Relative Accuracy       | ±0.1   |
|                | Offset Calibration      | 1 point  |
| Inputs         | pH/ISE                  | BNC, reference pin                                 |
|                | ATC                     | 8-pin mini-DIN                                     |

## Meter Ordering Information

| Cat. No. | Description   |
|----------|---|
| VSTAR10  | <b>Orion VERSA STAR pH Benchtop Meter Set</b><br>- Orion VERSA STAR meter with pH/temperature module<br>- Electrode arm with redesigned holder<br>- Universal power adapter   |
| VSTAR12  | <b>Orion VERSA STAR pH Benchtop Meter Kit</b><br>- Orion VERSA STAR meter with pH/temperature module<br>- 8302BNUMD Orion ROSS Triode pH/ATC probe<br>- 096019 Orion Star stirrer probe<br>- 810199 ROSS solution kit (475 mL each of pH 4, 7 and 10 buffers; storage solution; cleaning solution; and pH electrode storage bottle)<br>- Electrode arm with redesigned holder<br>- Universal power adapter  |
| VSTAR80  | <b>Orion VERSA STAR pH with LogR Benchtop Meter Set</b><br>- Orion VERSA STAR meter<br>- Orion VERSA STAR pH/temperature with LogR technology module<br>- 927007MD ATC probe, stainless steel<br>- Electrode arm with redesigned holder<br>- Universal power adapter  |
| VSTAR82  | <b>Orion VERSA STAR pH Benchtop Meter Kit</b><br>- Orion VERSA STAR meter<br>- Orion VERSA STAR pH/temperature with LogR technology module<br>- 8172BNWP Orion ROSS Sure-Flow pH electrode<br>- 927007MD ATC probe, stainless steel<br>- ROSS solution kit (475 mL each of pH 4, 7 and 10 buffers; storage solution; cleaning solution; and pH electrode storage bottle)<br>- 810007 ROSS fill solution, 5 x 60 mL<br>- Electrode arm with redesigned holder<br>- Universal power adapter |

## Product Specifications – pH/LogR Module (VSTAR-LR)

| CE   TUV   EPA                              |                         |  |
|---|-------------------------|--|
| pH  | Range                   | -2.000 to 20.000                                   |
|   | Resolution              | 0.1, 0.01, 0.001                                   |
|   | Relative Accuracy       | ±0.002   |
|   | Calibration Points      | Up to 6  |
|   | Calibration Editing     | Yes  |
|   | Adjustable ISO Point    | Yes  |
| mV/Rel mV/ ORP                              | Range                   | ±2000.0 mV   |
|   | Resolution              | 0.1  |
|   | Relative Accuracy       | ±0.2 mV or ±0.05 % of reading whichever is greater |
|   | E <sub>n</sub> ORP Mode | Yes  |
| LogR Temperature                            | Range                   | 0 to 100 °C, 32 to 212 °F                          |
|   | Resolution              | 0.1  |
|   | Relative Accuracy       | ±0.5   |
|   | Resistance Range        | 0 to 6000 MΩ                                       |
|   | Resistance Resolution   | 0.1 MΩ up to 1999.9 MΩ, 1 MΩ above 1999.9 MΩ       |
|   | Offset Calibration      | Up to 3 points                                     |
|   | Calibration Options     | ATC probe, NIST reference                          |
|   | Range                   | -5 to 105 °C, 23 to 221 °F                         |
| Temperature Measurement without LogR In-Use | Resolution              | 0.1  |
|   | Relative Accuracy       | ±0.1   |
|   | Offset Calibration      | 1 point  |
| Inputs                                      | pH                      | BNC, reference pin                                 |
|   | ATC                     | 8-pin mini-DIN                                     |

## Accessories

| Cat. No.  | Description  |
|-----------|--|
| VSTAR-ISE | Orion VERSA STAR pH/ISE/temperature module                 |
| VSTAR-CND | Orion VERSA STAR conductivity/temperature module           |
| VSTAR-RD  | Orion VERSA STAR RDO/DO/temperature module                 |
| 096019    | Orion Star stirrer probe                                   |
| 8102BNUWP | Orion ROSS Ultra pH electrode, refillable, glass body      |
| 8172BNWP  | Orion ROSS Sure-Flow pH electrode, glass body              |
| 8156BNUWP | Orion ROSS Ultra refillable pH electrode, epoxy body       |
| 8157BNUMD | Orion ROSS Triode pH/ATC electrode, refillable, epoxy body |
| 8302BNUMD | Orion ROSS Triode pH/ATC electrode, refillable, glass body |
| 927007MD  | Orion ATC probe, stainless steel body                      |
| 927005MD  | Orion ATC probe, epoxy body                                |
| 810199    | Orion ROSS all-in-one pH buffer kit                        |
| 910104    | Orion pH 4.01 buffer, 475 mL                               |
| 910107    | Orion pH 7.00 buffer, 475 mL                               |
| 910110    | Orion pH 10.01 buffer, 475 mL                              |

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pH ■  
ISE ■  
ORP ■  
Cond ■  
RDO ■  
DO ■  
Temp ■