## Instrument Settings Setup Menu

From the main screen of the meter, press ***f3*** to enter the Instrument Setup menu. The menus give the options to personalize the meter for your lab. The list of adjustable options are described in the table below.

| Instrument Settings Options | | | | |
|---|---|---|---|---|
| **Level 1** | **Level 2** | **Level 3 (Default settings in bold)** | | |
| Display | Brightness | 1, 2, **3**, 4, 5 | | |
| | Display View | Channel, Measurement Mode, Method, Stable, | Temperature, Secondary Parameter, Calibration Details, User ID, | Sample ID, Electrode Serial No: **(Default all above set on)** |
| | Display Format | Choose the screens displayed when the "channel" key is pressed **(Default all display options set to on)** | | |
| Communication | USB | To be enabled in future software update | | |
| | RS232 | 1200, 2400, 4800, **9600**, 19200, 38400, 57600, 115200 | | |
| Buzzer | Key Press | On, **Off** | | |
| | Ready | On, **Off** | | |
| | Alarm | On, **Off** | | |
| Stirrer | Channel 1 | Stirrer1, **Stirrer2** : Speed 1, 2, **3**, 4, 5, | | |
| | Channel 2 | Stirrer1, **Stirrer2** : Speed 1, 2, **3**, 4, 5, | | |
| | Channel 3 | **Stirrer1**, Stirrer2 : Speed 1, 2, **3**, 4, 5, | | |
| | Channel 4 | **Stirrer1**, Stirrer2 : Speed 1, 2, **3**, 4, 5, | | |
| Calendar | Date | **Factory setting** | | |
| | Time | **Factory setting** | | |
| Language | | **English**, Spanish, German, Italian, French, Chinese | | |
| Data Log | | Off, **On** | | |
| Printing | | **Off**, On | | |
| Print Format | | CSV, **Printer** | | |
| Screen Saver | | **Off**, On | | |
| Auto Shut Off | | **Off**, On | | |

## Diagnostics

The setup menu for meter tests has an icon for diagnostic testing, making is easy to isolate or identify an error. Navigate list by using up and down arrow keys to scroll.

| | |
|---|---|
| **Factory Reset** | Restores meter to condition at first shipment. |
| **User Reset** | Allows passwords to be reset without erasing everything in meter when personnel changes. |
| **Self Test** | Meter check to verify operating properly. |
| **Stability Test** | Runs test on electrode or probe for stability criteria. Drift indicates probe needs cleaning, needs range checked for compatibility or other maintenance. |
| **About Meter** | Information such as serial number, software revision, etc specific to this meter. |

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IS-68X591201 Rev. A 11-11

English

# Thermo Scientific Orion VERSA STAR™ Benchtop Meter

# Instruction Sheet

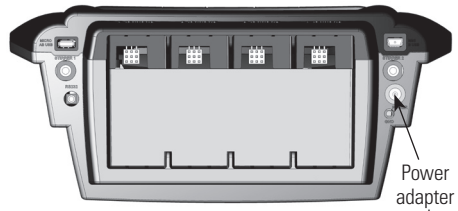
## Preparation

### Power

A universal power adapter, with US, EU, UK and China plug plates, is provided with the meter.

1. Select the appropriate plug plate for your power socket.
2. Slide the clear plastic cover off of the plug plate.
3. Slide the plug plate into the groove on the back of the power adapter.
4. Connect the power to the meter and to the power pin on the back of the meter.

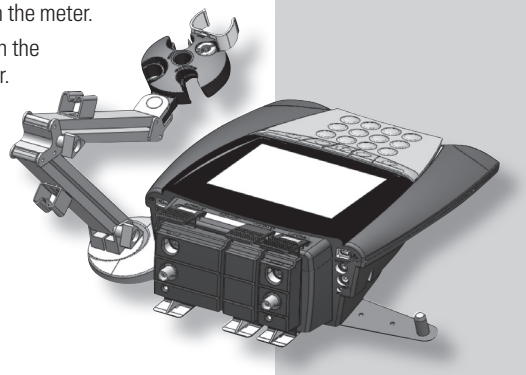
Orion VERSA STAR Benchtop




### Electrode Arm(s)

The electrode arms can be attached to either, or both, sides of the meter. (A separate weighted base, STARA-HB, is sold separately to use the arm without attaching to the meter.) Most kits contain one arm and some kits provide two arms. A second arm may be attached on the other side of the meter, through step 5, at the same time the first arm is being attached.

1. Open the box that contains the arm.
2. Turn the meter over on a clean, dry surface.
3. Remove the screw between the two circles on the base plate.
4. Align the base plate with the raised circles on the meter.
5. Replace the screw removed in step 3 to attach the electrode arm base to the bottom of the meter.
6. Turn the meter over.
7. Insert the electrode arm over the metal post protruding from base.



For additional information on meter setup and operation refer to the Reference Guide. The Reference Guide is on the CD included with the Orion VERSA STAR meter and also available at **www.thermoscientific.com/water**.

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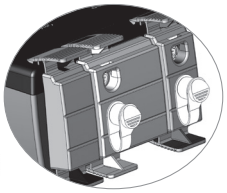
## Module to Meter Connections

Modules arrive installed in new Orion VERSA STAR meter and module packages.

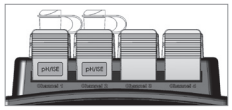
1. Modules pH, pH/ISE, Conductivity, RDO/DO each use one module slot.
2. pH/LogR module requires two module slots.
3. Open module slots are filled with blank modules.



Meter with blank, RDO/DO, Conductivity and pH/ISE modules attached



Meter with blank, pH/LogR, and pH modules attached



Modules labeled for easy identification

## Removing and Inserting Modules

This can be done regardless of whether the meter is powered or unpowered.

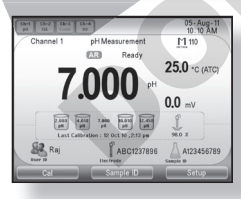
### Module Removal

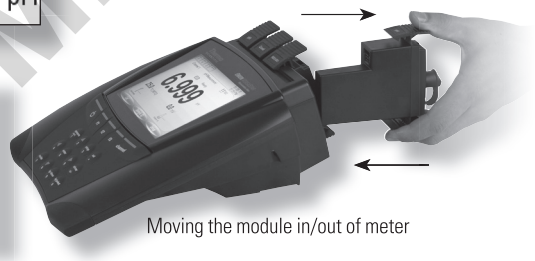
1. With your thumb on the top (labeled) tab and your index finger on the bottom tab, squeeze the tabs towards each other.
2. Pull straight back to remove the module from the meter.
3. Powered meters will no longer display that channel's measurement.

### Module Insertion

1. With your thumb on the top (labeled) tab and your index finger on the bottom tab, squeeze the tabs towards each other.
2. Push the module into an empty meter channel groove in the back of the meter.
3. Release the top and bottom tabs.
4. Powered meters will display channel information in top left of display.



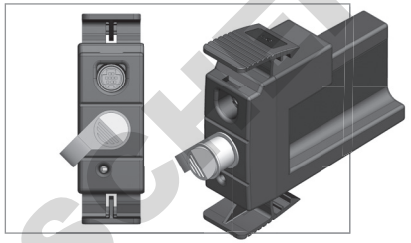



Moving the module in/out of meter

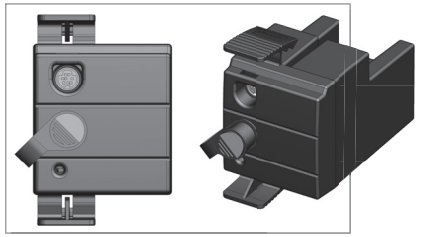
## Electrode/Probe Attachments to the Module

The electrode and probes attach to the same receptacle used on other Orion meters.

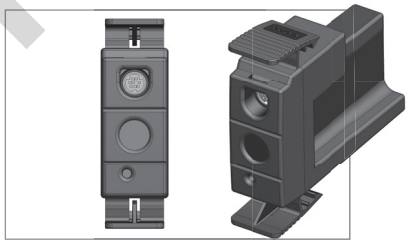
1. pH, pH/ISE electrodes connect to BNC; ATC probe connects to top 8 pin mini-DIN.
2. pH/LogR electrode connects to BNC and temperature taken from the pH bulb.
3. Conductivity probes connect to the top 8 pin mini-DIN.
4. RDO/DO probes connect to the top 9 pin mini-DIN and the probe type is automatically recognized.



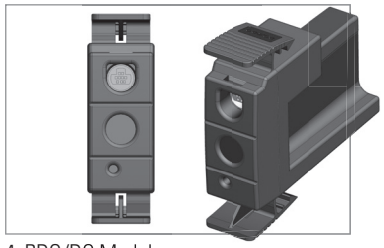
1. pH and pH/ISE Modules



2. pH/LogR Module



3. Conductivity Module



4. RDO/DO Module

## Module Measurement Capabilities

The table below shows the module name, label on the top tab of the module and measurement modes. All measurements include temperature.

| **Module** | pH | pH/ISE | RDO/DO | Conductivity | pH/LogR |
|---|---|---|---|---|---|
| **Labeled As** | pH | pH/ISE | RDO/DO | Cond | pH/LogR |
| **Measurement Modes** | pH | ISE | RDO (as % Sat or mg/L ) | Conductivity | pH |
| | mV | pH | DO (as % Sat or mg/L) | Resistivity | Temperature from pH bulb (no ATC needed) |
| | RmV | mV | Temperature | TDS | mV |
| | ORP (Redox) | RmV | | Salinity | RmV |
| | Temperature | ORP (Redox) | | Temperature | ORP (Redox) |
| | | Temperature | | | |

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