

Diagnostics Menu

Access the Diagnostics menu to initiate a meter reset, test electrode stability, perform a meter self test or view meter and module serial numbers and software revisions.

Main Menu	Settings
Factory Reset	All meter settings are reset to factory defaults. Data log, calibration log and methods are deleted. Default password is 1111.
User Reset	All settings for the selected channel are reset to factory defaults. Methods without a password are erased. Data log and calibration log are retained.
Stability Test	Tests the stability of a pH, ORP or ISE electrode by measuring the mV per minute drift and noise of the electrode. Only channels with a BNC input can be selected.
Self Test	Perform a keypad check, accuracy check (channels with BNC input only) and stirrer check (stirrer probe required). A self test is also performed automatically by the meter at each power up.
About Meter	Displays the meter and module software revisions and serial numbers. The meter and module serial numbers and software revisions will be different.

Data Transfer

If measurements will be saved to the data log and then transferred to a computer or printer, make sure the data log setting is on, the meter communication settings match the external device settings and the meter and external device are properly interfaced.

The VERSA STAR USB driver must be installed on the computer when interfacing the meter and computer via USB.

Thermo Scientific™ Orion™ STAR COM™ computer software facilitates the transfer of calibration and measurement data from the meter to a computer and can be downloaded for free at www.thermoscientific.com/OrionMeters.

thermoscientific.com/water

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Water Analysis Instruments

North America

Toll Free: 1-800-225-1480
Tel: 1-978-232-6000
info.water@thermo.com

Netherlands

Tel: (31) 020-4936270
info.water.uk@thermo.com

Singapore

Tel: (65) 6778-6876
wai.asia@thermofisher.com

India

Tel: (91) 22-4157-8800
wai.asia@thermofisher.com

China

Tel: (86) 21-68654588
wai.asia@thermofisher.com

Japan

Tel: (81) 045-453-9175
wai.asia@thermofisher.com

Australia

Tel: (613) 9757-4300
in Australia (1300) 735-295
InfoWaterAU@thermofisher.com

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VERSA STAR Benchtop Meter

General Information

This literature provides basic instructions on operating the Thermo Scientific™ Orion™ VERSA STAR™ meter when one or more VERSA STAR measurement module is installed. For comprehensive information on meter and module system setup, operation and advanced features, please refer to the VERSA STAR user manual available on the VERSA STAR literature CD or www.thermoscientific.com/water.

Preparation

Power Adapter

A universal power adapter with US, EU, UK and China plug plates is included with the meter. Use of other power adapters can damage the meter and void the warranty. The use of a surge protector or UPS is also recommended.

1. Select the appropriate plug plate for the power outlet.
2. Remove the clear plastic cover from the back of the power adapter.
3. Slide the plug plate into the groove on the back of the power adapter.
4. Connect the assembled power adapter to the outlet and meter input labeled POWER.

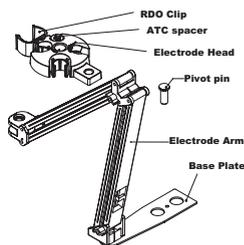


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Electrode Stand

The electrode stand can be attached to either side of the meter and up to two stands can be attached to each meter. A weighted base (Catalog Number STARA-HB) is also available to support the stand without a meter.

1. Open the box containing the electrode stand. The box will include a base plate, electrode arm, pivot pin, electrode holder, ATC spacer and RDO clip.
2. Turn the meter over, with the meter display facing down, on a clean dry surface.
3. Identify the side of the meter that the stand will be installed on and remove the screw between the circles on that side of the meter.
4. Align the base plate of the stand with the circles on the meter.
5. Replace the screw from step 3 to attach the base plate to the meter.
6. Turn the meter over, with the meter display facing up.
7. Insert the electrode arm into the metal post on the base plate.
8. Connect the electrode holder to the electrode arm using the pivot pin.



Meter and Module System

VERSA STAR meters and modules can be purchased individually or as preconfigured systems with up to four modules already connected with the channels. Modules are labeled for easy identification.

1. pH, pH/ISE, Conductivity and RDO/Dissolved Oxygen modules – each connects with one channel.
2. pH/LogR module connects with two channels.
3. Unused channels are covered with blank modules.
4. Modules can be moved among the four available channels as needed, regardless of whether the meter is powered on or off.



Module Insertion

1. Hold the top (labeled) and bottom tabs on the module with your thumb and index finger and squeeze the tabs towards each other.
2. Slide the module straight into an open channel groove on the back of the meter. The tabs should snap into place when the module is fully connected to the meter.
3. Release the top and bottom tabs on the module.
4. The meter will update the channel ID display with the module ID in the corresponding channel location.

Module Removal

1. Hold the top (labeled) and bottom tabs on the module with your thumb and index finger and squeeze the tabs towards each other.
2. Pull straight back to remove the module from channel groove on the back of the meter.
3. The meter will update the channel ID display with dashes in the previous channel location.

Module Measurement Capabilities

Module Catalog No.	VSTAR-PH	VSTAR-ISE	VSTAR-LR	VSTAR-CND	VSTAR-RD
Label	pH	pH/ISE	pH/LogR	Cond	RDO/DO
Measurement Modes	pH, mV, RmV, ORP	pH, mV, RmV, ORP, ISE	pH, mV, RmV, ORP	Conductivity, TDS, Salinity, Resistivity	% Saturation, mg/L
Temperature Modes	Automatic, Manual	Automatic, Manual	Automatic, Manual, LogR	Automatic, Manual	Automatic

Meter Setup Menus

The Main Setup menu contains up to four channel-specific measurement menus, instrument settings menu, calibration and data log view menu, and meter diagnostics menu in one easy to access location.

1. In the measurement mode, press the *setup* key.
2. Press the ◀ or ▶ key to highlight the appropriate setup menu and press the *F3 (Select)* key.
3. View and update the displayed menu options.



Instrument Settings Setup Menu

Use the Instrument Settings setup menu to update meter settings for the display, sound, date and time, language, data transfer, stirrer speed and channel assignment, screen saver and auto-shutoff feature.

Main Menu	Submenu	Settings
Display	Brightness	Level 1, Level 2, Level 3 , Level 4, Level 5
	Display View	Channel <input checked="" type="checkbox"/> , Measurement Mode <input checked="" type="checkbox"/> , Method <input checked="" type="checkbox"/> , Stable <input checked="" type="checkbox"/> , Temperature <input checked="" type="checkbox"/> , Secondary Parameter <input checked="" type="checkbox"/> , Calibration Details <input checked="" type="checkbox"/> , User ID <input type="checkbox"/> , Sample ID <input checked="" type="checkbox"/> , Electrode Serial No. <input checked="" type="checkbox"/>
	Display Format	Channel 1 <input checked="" type="checkbox"/> , Channel 2 <input checked="" type="checkbox"/> , Channel 3 <input checked="" type="checkbox"/> , Channel 4 <input checked="" type="checkbox"/> , Channel 1 & 2 <input checked="" type="checkbox"/> , Channel 1 & 3 <input checked="" type="checkbox"/> , Channel 1 & 4 <input checked="" type="checkbox"/> , Channel 2 & 3 <input checked="" type="checkbox"/> , Channel 2 & 4 <input checked="" type="checkbox"/> , Channel 3 & 4 <input checked="" type="checkbox"/> , Channel 1, 2 & 3 <input checked="" type="checkbox"/> , Channel 1, 2 & 4 <input checked="" type="checkbox"/> , Channel 1, 3 & 4 <input checked="" type="checkbox"/> , Channel 2, 3 & 4 <input checked="" type="checkbox"/> , Channel 1, 2, 3 & 4 <input checked="" type="checkbox"/>
Communication	USB	
	RS232	1200, 2400, 4800, 9600 , 19200, 38400, 57600, 115200
Buzzer	USB PRINTER	
	Key Press	Off, On
	Ready	Off , On
Stirrer	Alarm	Off , On
	Stirrer 1	Channel 1 <input type="checkbox"/> , Channel 2 <input type="checkbox"/> , Channel 3 <input checked="" type="checkbox"/> , Channel 4 <input checked="" type="checkbox"/> Speed 1, 2, 3 , 4, 5
Calendar	Stirrer 2	Channel 1 <input checked="" type="checkbox"/> , Channel 2 <input checked="" type="checkbox"/> , Channel 3 <input type="checkbox"/> , Channel 4 <input type="checkbox"/> Speed 1, 2, 3 , 4, 5
	Time	12 , 24 Hrs
Language	Date	DD-MM-YY , MM-DD-YY, DD-MMM-YY
		English , Spanish, German, Italian, French, Chinese, Portuguese
Data Log		Off, On
Printing		Off , On
Print Format		CSV, Printer
Screen Saver		Off, On
Auto Shut Off		Off , On