

Benchtop Meters At-a-Glance Selection Guide

Ensure accurate and reliable measurements in your laboratory and research locations.

Our Thermo Scientific™ Orion™ Versa Star™ and Thermo Scientific™ Orion Star™ A series benchtop meters are designed to address a variety of measurement requirements for dependable performance. Identify the best match based on your required features, performance specifications and budget.



Premium Benchtop Meters

Advanced Benchtop Meters

Basic Benchtop Meters

FEATURES

Display Type	Adjustable color graphic LCD	Graphic LCD with backlight	Fixed segment LCD
Onscreen Text Prompts	Step-by-step calibration and guided setup instructions	Step-by-step calibration and guided setup instructions	Basic calibration and setup prompts
Keypad	Numeric with menu-specific function keys	Comprehensive with menu-specific function keys	Simple with highlighted measure key
Number of Channels	4, customizable with modules	1 to 2	1
Stirrer Probe Inputs	2	1	—
Measurement Read Modes	Auto-Read, Timed, Single-shot, Continuous	Auto-Read, Timed, Continuous	Auto-Read, Continuous
Methods	10 per channel	10 per channel	—
Data Log	2000 with date/time	2000 with date/time	50
Calibration Log	10 per mode	10	1
Identification Options	Electrode ID, Sample ID, User ID	Sample ID, User ID	—
Alarms	Set Point, High/Low Limit, Calibration Due	High/Low Limit, Calibration Due	—
External Device Output	USB (2), RS232	USB, RS232	—
Computer Software	Yes	Yes	—
Certifications	IP-54, CE, TUV 3-in-1, FCC Class A	IP-54, CE, TUV 3-in-1, FCC Class A	IP-54, CE, TUV 3-in-1, FCC Class A
Power Supply	Universal, 90-260 VAC, 50-60 Hz	Universal, 90-260 VAC, 50-60 Hz or 4 AA batteries	Universal, 90-260 VAC, 50-60 Hz or 4 AA batteries

MEASUREMENT PARAMETERS

pH	Versa Star meter with pH or pH/LogR module	Star A211 pH meter	Star A111 pH meter
pH/Ion	Versa Star meter with one or two pH/ISE modules	Star A214 pH/ISE meter (Dual Star two channel pH/ISE meter also available)	—
Conductivity	Versa Star meter with conductivity module	Star A212 conductivity meter	Star A112 conductivity meter
Dissolved Oxygen	Versa Star meter with RDO/DO module	Star A213 RDO/DO meter	Star A113 DO meter
pH & Conductivity	Versa Star meter with pH & conductivity modules	Star A215 pH & conductivity meter	—
pH & Dissolved Oxygen	—	Star A216 pH & RDO/DO meter	—
pH, Ion, Conductivity & Dissolved Oxygen	Versa Star meter with pH/ISE, conductivity & RDO/DO modules	—	—
Expandable Measurement Modules	Select up to four modules per meter to customize parameters	—	—

Portable Meters At-a-Glance Selection Guide

Take your measurements into the great outdoors.

Our Thermo Scientific Orion Star A series portable meters are built rugged and waterproof for dependable performance. Take advantage of one-hand operation and easy portability for any remote application without sacrificing the accuracy and reliability of your measurements. Identify the best match based on your required features, performance specifications and budget.



Premium
Portable Meters

Advanced
Portable Meters

Basic
Portable Meters

FEATURES

Display Type	Graphic LCD with backlight	Graphic LCD with backlight	Fixed segment LCD
Onscreen Text Prompts	Step-by-step calibration and guided setup instructions	Step-by-step calibration and guided setup instructions	Basic calibration and setup prompts
Keypad	Comprehensive with menu-specific function keys	Comprehensive with menu-specific function keys	Simple with highlighted measure key
Number of Channels	1 to 3	1	1
Measurement Read Modes	Auto-Read, Timed, Continuous	Auto-Read, Continuous	Auto-Read, Continuous
Methods	10 per channel	—	—
Data Log	5000 with date/time	1000 with date/time	50
Calibration Log	10 per channel	10	1
Identification Options	Sample ID, User ID	—	—
Alarms	High/Low Limit, Calibration Due	Calibration Due	—
External Device Output	USB, RS232	USB, RS232	—
Computer Software	Yes	Yes	—
Enclosure Rating	IP67 waterproof	IP67 waterproof	IP67 waterproof
Certifications	CE, TUV 3-in-1, FCC Class A	CE, TUV 3-in-1, FCC Class A	CE, TUV 3-in-1, FCC Class A
Power Supply	Four AA batteries or universal 90-260 VAC, 50-60 Hz wall adapter	Four AA batteries or universal 90-260 VAC, 50-60 Hz wall adapter	Four AA batteries or universal 90-260 VAC, 50-60 Hz wall adapter
Average Battery Life	800 hours	800 hours	2000 hours

MEASUREMENT PARAMETERS

pH	Star A321 pH meter	Star A221 pH meter	Star A121 pH meter
Conductivity	Star A322 conductivity meter	Star A222 conductivity meter	Star A122 conductivity meter
Dissolved Oxygen	Star A323 RDO/DO meter	Star A223 RDO/DO meter	Star A123 DO meter
pH/Ion	Star A324 pH/ISE meter		
pH & Conductivity	Star A325 pH & conductivity meter		
pH & Dissolved Oxygen	Star A326 pH & RDO/DO meter		
pH, Ion, Conductivity & Dissolved Oxygen	Star A329 pH/ISE, conductivity & RDO/DO meter		