Bench meters

Rapid and consistent laboratory results

Eutech 1700 Series Bench Meters

thermo scientific


Durable and reliable instruments for consistent testing and measurement

For more than 30 years,

Thermo Scientific™ Eutech™ instruments have helped scientists and technicians with water quality analysis. Eutech instruments pioneered the inclusion of application-specific integrated circuits (ASIC) and are internationally recognised for their achievements in sensor technology, software programming and product design. The result is a unique line of products that are accurate, consistent, reliable and easy to use.

Driven by a successful total customer satisfaction program in the ISO9001:2000 Quality System, all products undergo extensive testing and calibration by a qualified team of technical experts. Stringent quality control measures help ensure consistency, durability and performance. Additionally, Eutech water analysis instruments, electrodes and solutions are certified to comply with various global testing standards.

Every Eutech innovation is conceptualised with the user in mind. This, coupled with our strategic location in the design and technology hub of Asia, has enabled the production of cutting-edge instruments at competitive prices.

Learn more about Eutech instruments at **thermofisher.com/eutech**.

Eutech

1710 pH/mV Bench Meter

Simplify your pH and redox sample measurements

- The large, bright backlit display makes it easy to read and record sample measurements
- The meter's small footprint helps reduce the amount of required bench space
- Critical data is automatically saved to the 500-point meter data log and can be exported via the meter's communication port to a computer or printer
- The meter's non-volatile meter memory preserves settings and data in the event of power loss
- On-screen icons indicate measurement stability status to support confidence in your readings
- All meters allow for automatic or manual temperature compensation and a one-point offset ATC temperature probe calibration

Features and benefits

- Simultaneously read pH, mV and temperature
- Measure –2.00 to 18.00 pH, ±2000.0 mV, –5.0 to 105.0°C
- Perform one- to five-point pH calibrations
- Calibrate using automatic buffer recognition or manual entry
- Perform one-point relative mV calibration (RmV)
- Monitor pH electrode status with the electrode condition icon
- View pH, RmV and temperature calibration logs with date and time stamps
- All data and calibration logs are date and time stamped for GLP/GMP reporting
- Help facilitate electrode movement into and out of samples with the meter-attached stand

Meter is guaranteed against manufacturing defects for three years from the purchase date.

Eutech 1710 pH/mV Bench Meter Models

Description	Cat. No.
Eutech 1710 pH/mV bench meter with stand, PC cable and 100 to 240 V universal power adapter	EBPH171000
Eutech 1710 pH/mV bench meter kit with gel-filled plastic-body pH/ATC electrode, solutions, stand, PC cable and power adapter	EBPH171001
Eutech 1710 pH/mV bench meter kit with refillable plastic-body double junction pH electrode, ATC probe, solutions, stand, PC cable and power adapter	EBPH171002
Eutech 1710 pH/mV bench meter kit with gel-filled plastic-body double junction pH electrode, ATC probe, solutions, stand, PC cable and power adapter	EBPH171003
Eutech 1710 pH/mV bench meter kit with refillable glass-body double junction pH electrode, ATC probe, solutions, stand, PC cable and power adapter	EBPH171004

Electrode and accessory information can be found on pages 11–15 of this brochure and at **thermofisher.com/eutech**.

Eutech

1720 Conductivity Bench Meter

Streamline your conductivity, salinity and total dissolved solids (TDS) sample measurements

- The large, bright backlit display makes it easy to read and record sample measurements
- The meter's small footprint helps reduce the amount of required bench space
- Critical data is automatically saved to the 500-point meter data log and can be exported via the meter's communication port to a computer or printer
- The meter's non-volatile meter memory preserves settings and data in the event of power loss
- On-screen icons indicate measurement stability status to support confidence in your readings
- All meters allow for automatic or manual temperature compensation and a one-point offset ATC temperature probe calibration

Features and benefits

- Simultaneously read conductivity, salinity or TDS with temperature measurements
- Measure 0.00 µS to 500.0 mS conductivity, 0.00 to 80.0 ppt salinity, 0.00 ppm to 500.0 ppt TDS, and –5.0 to 105.0°C
- Perform one- to five-point conductivity calibrations
- Calibrate using automatic standard recognition or manual entry
- Perform one-point salinity and one- to five-point TDS calibrations
- View conductivity, salinity, TDS and temperature calibration logs with date and time stamps
- All data logs and calibration logs are date and time stamped for GLP/GMP reporting
- Help facilitate electrode movement into and out of samples with the meter-attached stand

Meter is guaranteed against manufacturing defects for three years from the purchase date.

Eutech 1720 Conductivity Bench Meter Models

Description	Cat. No.
Eutech 1720 conductivity/salinity/TDS bench meter with stand, PC cable and 100 to 240V universal power adapter	EBEC172000
Eutech 1720 conductivity/salinity/TDS bench meter kit with two-cell conductivity/ATC probe, solutions, stand, PC cable and power adapter	EBEC172001

Electrode and accessory information can be found on pages 11–15 of this brochure and at **thermofisher.com/eutech**.

Eutech

1730 Dissolved Oxygen Meter

Take your dissolved oxygen sample measurements with ease

- The large, bright backlit display makes it easy to read and record sample measurements
- The meter's small footprint helps reduce the amount of required bench space
- Critical data is automatically saved to the 500-point meter data log and can be exported via the meter's communication port to a computer or printer
- The meter's non-volatile meter memory preserves settings and data in the event of power loss
- On-screen icons indicate measurement stability status to support confidence in your readings
- All meters allow for automatic or manual temperature compensation and a one-point offset ATC temperature probe calibration

Features and benefits

- Simultaneously read dissolved oxygen and temperature measurements
- Measure 0.0 to 300.0% saturation, 0.00 to 30.0 mg/L or ppm concentrations, and –5.0 to 105.0°C
- Perform 100% and 0% saturation calibrations or a one-point concentration calibration using a custom value (Winkler)
- Use automatic barometric pressure compensation for dissolved oxygen measurements with value entry in mmHg or bar
- Use automatic salinity compensation for dissolved oxygen measurements with a value entry of 0.0 to 50.0 ppt
- View dissolved oxygen and temperature calibration logs with date and time stamps
- All data logs and calibration logs are date and time stamped for GLP/GMP reporting
- Help facilitate electrode movement into and out of samples with the meter-attached stand

Meter is guaranteed against manufacturing defects for three years from the purchase date.

Eutech 1730 Dissolved Oxygen Meter Models

Description	Cat. No.
Eutech 1730 dissolved oxygen bench meter with stand, PC cable and 100 to 240V universal power adapter	EBDX173000
Eutech 1730 dissolved oxygen bench meter kit with galvanic DO/ATC probe, stand, PC cable and 100 to 240V universal power adapter	EBDX173001

Electrode and accessory information can be found on pages 11–15 of this brochure and at **thermofisher.com/eutech**.

Thermo Scientific Eutech 1700 Series Laboratory Meter Specification Table

	Specification	Eutech 1710 pH/mV Meter	Eutech 1720 Conductivity Meter	Eutech 1730 Dissolved Oxygen Meter
pH	Range	–2.00 to 18.00 pH		
	Resolution	0.1, 0.01 pH		
	Relative accuracy	±0.01 pH ±1 LSD		
	Calibration points	1 to 5 points		
	Automatic buffer sets	USA (pH 1.68, 4.01, 7.00, 10.01, 12.45), NIST (pH 1.68, 4.01, 6.86, 9.18 ,12.45)		
mV/RmV	Range	±2000.0 mV		
	Resolution	0.1 mV		
	Relative accuracy	±0.2 mV or ±0.05% of reading, whichever is greater		
	Calibration point	1 point		
Conductivity	Range		0.00 µS to 500.0 mS	
	Resolution		0.01, 0.1, 1 µS; 0.01, 0.1 mS	
	Relative accuracy		±0.5% reading ±1 LSD	
	Calibration points		1 to 5 points	
	Temperature compensation		Linear (0 to 10 %/°C) or off	
	Normalization temperature		15.0, 20.0, 25.0 or 30.0°C	
TDS	Range		0.00 ppm to 500.0 ppt (TDS factor of 1.00)	
	Resolution		0.01, 0.1, 1 ppm; 0.01, 0.1 ppt	
	Relative accuracy		±0.5% reading ±1 LSD	
	Calibration points		1 to 5 points	
	TDS factor		0.40 to 1.00	
Salinity	Range		0.00 to 80.0 ppt	
	Resolution		0.01, 0.1 ppt	
	Relative accuracy		±0.5% reading ±1 LSD	
	Calibration points		1 point	
Dissolved oxygen	Range			0.0 to 300.0% saturation; 0.00 to 30.0 mg/L or ppm
	Resolution			0.1, 1% saturation; 0.01, 0.1 mg/L or ppm
	Relative accuracy			±2% saturation; ±0.2 mg/L or ppm
	Calibration types			100% and 0% saturation; custom concentration value
	Barometric pressure compensation			400.0 to 850.0 mmHg; 0.53 to 1.13 bar
	Salinity compensation			0.0 to 50.0 ppt
Temperature	Range	–5.0 to 105.0°C		
	Resolution	0.1°C		
	Relative accuracy	±0.3°C		
	Input	Manual or automatic with ATC probe		
	Calibration points	1 point, ±5.0°C		
Meter features	Display	5 in. segmented LCD with backlight		
	Date and time	Yes		
	Read types	Continuous, auto-read, timed		
	Data log points	Up to 500		
	Calibration log	pH, RmV and temperature	Conductivity, TDS, salinity and temperature	Dissolved oxygen and temperature
	Data output	Computer or printer		
	Calibration due alarm	1 to 168 hours or off		
	Alarms	Visual and on/off audible		
	Memory	Non-volatile		
	Warranty	3 years		

Eutech accessories, electrodes and solutions

Customise your meter with electrodes and solutions that meet your exact testing needs

Thermo Scientific Eutech 1700 Series Laboratory Meter Accessories

Find the right accessories for your workflow.

Description	Uses	Cat. No.
Meter-attached electrode stand	Replace your electrode stand as needed	EB1700ARM
Universal power supply, 100 to 240V	Replace your power adapter as needed	EB1700PWR
USB computer cable	Replace your computer cable as needed	EB1700USB
Meter dust cover	Protect your meter from dust and debris while in storage	EB1700CVR
Compact thermal printer with RS232 cable and paper, 100 to 240V	Print data from your meter to document and retain records	01X594301
RS232 cable for thermal printer	Replace your printer cable as needed	30X427301
Paper for thermal printer, 2 pack	Replace your printer paper as needed	01X594401
Precision pH/mV simulator with BNC-to-BNC cable	Check pH/mV meter function independent of an electrode – compatible with Eutech 1710 pH/mV Bench Meter only	PHSIMULATOR

Eutech pH and ORP Electrodes

For use with Eutech 1710 pH/mV Bench Meters.

Description	Range	Material	Junction	Fill Type	Temperature Range	Dimensions	Cable, Connector	Cat. No.
General Purpose Refillable Combination pH Electrode	0 to 13 pH	Glass	Single junction, ceramic	Refillable, ECRE001	0 to 100°C	130 x 12 mm	1m, BNC	ECFG7350401B
General Purpose Refillable Combination pH Electrode, Sleeve Design	0 to 13 pH	Glass	Single junction, sleeve design for faster response in high viscosity solutions	Refillable, ECRE001	0 to 100°C	110 x 12 mm	1m, BNC	ECFG7351101B
Double Junction Combination pH Electrode	0 to 13 pH	Glass	Double junction, ceramic	Refillable, ECRE002	0 to 100°C	110 x 12 mm	1m, BNC	ECFG7370101B
Spear Tip Double Junction Combination pH Electrode	2 to 11 pH	Glass	Double junction, open pore, suitable for semi-solid samples	Sealed, polymer-gel	0 to 50°C	80 x 6 mm	1m, BNC	EC620133
General Purpose Combination pH Electrode, Open Pore	0 to 13 pH	Plastic	Single junction, porous HDPE pin	Sealed, gel-filled	0 to 80°C	90 x 12 mm	1m, BNC	ECFC7252101B
Double Junction Combination pH Electrode	0 to 13 pH	Plastic	Double junction, porous HDPE pin	Sealed, gel-filled	0 to 80°C	90 x 12 mm	1m, BNC	ECFC7252201B
General Purpose Refillable Combination pH Electrode	0 to 13 pH	Plastic	Single junction, porous HDPE pin	Refillable, ECRE001	0 to 80°C	90 x 12 mm	1m, BNC	ECFC72521R01B
Double Junction Refillable Combination pH Electrode	0 to 13 pH	Plastic	Double junction, porous HDPE pin	Refillable, ECRE002	0 to 80°C	90 x 12 mm	1m, BNC	ECFC72522R01B
General Purpose 3-in-1 pH/Temperature Electrode	0 to 13 pH	Plastic	Single junction, porous HDPE pin	Sealed, gel-filled	0 to 80°C	90 x 12 mm	1m, BNC and 2.5 mm phono	ECFC7352901B
Temperature Electrode	–	Stainless steel	–	–	0 to 100°C	117 x 3 mm	1m, 2.5 mm phono	PH5TEMB01P
General Purpose ORP Electrode	–1000 to +1000 mV	Plastic	Double junction, platinum pin	Sealed, gel-filled	0 to 80°C	90 x 12 mm	1m, BNC connector	ECFC7960201B

Conductivity Probes

For use with Eutech 1720 Conductivity Bench Meters.

Description	Range	Material	Temperature Range	Dimensions	Cable	Cat. No.
2-Electrode Conductivity/ ATC Cell	0 to 150 mS, K=1.0	Stainless steel rings, PP and Ultem™ body	0 to 80°C	144 x 16 mm	1 m, 8-pin DIN	CONSEN9501D
2-Electrode Conductivity/ ATC Cell	<200 µS, K=0.1	Stainless steel rings, epoxy body	0 to 80°C	115 x 12 mm	1 m, 8-pin DIN	93X546101
4-Electrode Conductivity/ ATC Cell	0 to 350 mS, K=0.530	Graphite with epoxy body	0 to 100°C	120 x 12 mm	1 m, 8-pin DIN	CONSEN9201D

Eutech Dissolved Oxygen Probes

For use with Eutech 1730 Dissolved Oxygen Bench Meters.

Description	Range	Material	Temperature Range	Dimensions	Cable	Cat. No.
Galvanic Dissolved Oxygen/ ATC Probe	0 to 20 mg/L	Stainless steel rings, PP and Ultem body	0 to 50°C	78 x 16.5 mm	0.9 m, BNC and 2.5 mm phono	DO6HANDY

Eutech pH and ORP Solutions

Description	Cat. No.
pH 1.68 buffer, colourless, 480 mL	ECBU1BT
pH 4.01 buffer, colourless, 480 mL	ECBU4BT
pH 4.01 buffer, red coloured, 1 L	ECBU4BTC1LIT
pH 4.01 buffer, red coloured, 480 mL	ECBU4BTC
pH 4.0 buffer, red coloured, 60 mL	01X608001
pH 4.01 buffer sachets, 20 x 20 mL	ECBU4BS
pH 6.86 buffer, colourless, 480 mL	ECBU686BT
pH 7.00 buffer, colourless, 480 mL	ECBU7BT
pH 7.00 buffer, yellow coloured, 1 L	ECBU7BTC1LIT
pH 7.00 buffer, yellow coloured, 480 mL	ECBU7BTC
pH 7.00 buffer, yellow coloured, 60 mL	01X607901
pH 7.00 buffer sachets, 20 x 20 mL	ECBU7BS
pH 9.00 buffer, colourless, 480 mL	ECBU9BT
pH 9.18 buffer, colourless, 480 mL	ECBU918BT
pH 10.01 buffer, blue coloured, 1 L	ECBU10BTC1LIT
pH 10.01 buffer, blue coloured, 480 mL	ECBU10BTC
pH 10.01 buffer, colourless, 480 mL	ECBU10BT
pH 10.0 buffer, blue coloured, 60 mL	01X608101
pH 10.01 buffer sachets, 20 x 20 mL	ECBU10BS
pH 12.45 buffer, colourless, 480 mL	ECBU12BT
pH 4, 7, 10 buffer set, colourless, 480 mL each	ECPHBUFKIT
pH 4, 7, 10 buffer set, coloured, 480 mL each	ECPHBUFKITC
Deionised water rinse sachets	ECRINWT
Storage solution for pH electrode, 480 mL	ECRE005
Storage solution for EC620130 pH electrode, 500 mL	ECRE006
Protein cleaning solution for pH electrode, 480 mL	ECDPCBT
Single junction pH and ORP electrode fill solution, 480 mL	ECRE001
Double junction pH and ORP electrode fill solution, 480 mL	ECRE002
ORP pre-treatment solution (475 mV), 480 mL	ECORPPRE
ORP standard, quinhydrone 263 (263 mV, ±30 mV at 25°C), 480 mL	ECORPQUIN
ORP standard, quinhydrone 86 (86 mV, ±30 mV at 25°C), 480 mL	ECORPQUIN086

Eutech Conductivity, TDS and Salinity Solutions

Parameter	Description	Cat. No.
Conductivity Standard Solutions	10 µS/cm KCl conductivity standard sachets, 20 x 20 mL	ECCON10BS
	84 µS/cm KCl conductivity standard, 480 mL	ECCON84BT
	84 µS/cm KCl conductivity standard, 60 mL	01X609201
	100 µS/cm KCl conductivity standard, 480 mL	ECCON100BT
	447 µS/cm KCl conductivity standard sachets, 20 x 20 mL	ECCON447BS
	500 µS/cm KCl conductivity standard, 480 mL	ECCON500BT
	1,413 µS/cm KCl conductivity standard, 480 mL	ECCON1413BT
	1,413 µS/cm KCl conductivity standard, 60 mL	01X608301
	1,413 µS/cm KCl conductivity standard sachets, 20 x 20 mL	ECCON1413BS
	2,764 µS/cm KCl conductivity standard, 480 mL	ECCON2764BT
	2,764 µS/cm KCl conductivity standard sachets, 20 x 20 mL	ECCON2764BS
	5.0 mS/cm KCl conductivity standard, 480 mL	ECCON5000BT
	12.88 mS/cm KCl conductivity standard, 480 mL	ECCON1288BT
	15,000 µS/cm (15 mS/cm) KCl conductivity standard sachets, 20 x 20 mL	ECCON15000BS
	111.8 mS/cm KCl conductivity standard, 480 mL	ECCON1118BT
TDS Standard Solutions	50 ppm 442 TDS standard, 480 mL	EC44250BT
	300 ppm 442 TDS standard, 480 mL	EC442300BT
	1,000 ppm 442 TDS standard, 480 mL	EC4421000BT
	3,000 ppm 442 TDS standard, 480 mL	EC4423000BT
Salinity Standard Solutions	5 ppt NaCl salinity standard, 480 mL	ECNACL5PPT
	25 ppt NaCl salinity standard, 480 mL	ECNACL25PPT
	45 ppt NaCl salinity standard, 480 mL	ECNACL45PPT
	3,000 ppm KCl salinity standard sachets, 20 x 20 mL	ECCON3000BS

Eutech Dissolved Oxygen Solution

Parameter	Description	Cat. No.
Dissolved Oxygen Solutions	Zero oxygen solution, 0% dissolved oxygen, 480 mL	ECDOZEROSOLN

Learn more at **thermofisher.com/eutech**

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