

Specifications:

Range	pH	-2.000 to 20.000
	mV	±2000.0 mV
	Relative mV	±2000.0 mV
	ORP	±2000.0 mV
	ISE	0.0001 to 19990 with selectable units of ppm, Molar, mg/L, %, ppb or none
	Conductivity	0.001µS/cm to 3000 mS/cm
	TDS	0.001 to 200.0 ppm
	Salinity	0.006 to 80.00 psu, 0.05 to 42.00 ppt
	Resistivity	2 ohm to 100.0 meg-ohm
	Polarographic DO	0.00 to 90.00 mg/L
	RDO	0.00 to 50.00 mg/L
	Percent Saturation (Polarographic DO)	0.0 to 600.0% Saturation
	Percent Saturation (RDO)	0.0 to 500.0% Saturation
	Barometric Pressure	400 to 850 mm Hg
	Temperature	-5.0°C to 105.0°C / 22.0°F to 221.0°F
Resolution	pH	0.1, 0.01, 0.001 pH
	mV	0.1 mV
	ISE	0.0001 minimum, 1 to 4 significant digits (user selectable)
	Conductivity	0.001 µS minimum, auto ranging up to 4 significant digits
	TDS	0.001 ppm minimum, auto ranging up to 4 significant digits
	Salinity	0.01 psu or 0.01 ppt minimum, auto ranging
	Resistivity	1 ohm or 0.1 meg-ohm, auto ranging
	Polarographic DO	0.01, 0.1 mg/L
	RDO	0.01, 0.1 mg/L
	Percent Saturation (Polarographic DO)	0.1, 1 % Saturation
	Percent Saturation (RDO)	0.1, 1 % Saturation
	Barometric Pressure	0.1 mm Hg
	Temperature	0.1°C / 0.1°F
Accuracy	pH	±0.002 pH
	mV	±0.2 mV or ±0.05% of reading, whichever is greater
	ISE	±0.2mV or ±0.05% of reading, whichever is greater
	Conductivity	0.5% of reading ± 1 digit > 3 µS; 0.5% of reading ± 0.01 µS ≤ 3 µS
	TDS	0.5% of reading ± 1 digit
	Salinity	0.5% of reading ± 1 digit
	Resistivity	0.5% of reading ± 1 digit
	Polarographic DO	±0.2 mg/L or ±2% of reading, whichever is greater
	RDO	±0.1 mg/L up to 8mg/L, ±0.2 mg/l from 8 to 20 mg/L, ±10% of reading up to 50 mg/L
	Percent Saturation (Polarographic DO)	±2% saturation or ±2% of reading, whichever is greater
	Percent Saturation (RDO)	±2% Saturation ≤ 200% Saturation, ±10% Saturation > 200% Saturation
	Barometric Pressure	±6 mm Hg
	Temperature	±0.1°C
TDS Factor Range		Linear (0.02 to 9.99)
Salinity Measurement Modes		Practical salinity (psu) or natural sea water (ppt)
Cell Constant		0.001 to 199.9 cm ⁻¹
Compatible Conductivity Probes		2-cell or 4-cell conductivity sensors with built-in temperature
DO Calibration Modes		Water-saturated air, air-saturated water, manual (Winkler titration), zero point
DO Sensor Types		RDO Optical Dissolved Oxygen Sensor or Polarographic Dissolved Oxygen Sensor
Barometric Pressure Correction		400 to 850 mm Hg, automatic using built-in barameter or manual entry
Salinity Factor		0.0 to 45.0 ppt, automatic correction using manual entry of sample salinity
Calibration		pH with calibration editing option, ISE with calibration editing option, relative mV (RmV), ORP and temperature
Calibration Points	pH	1 to 6
	RmV/ORP	1 point relative mV (RMV) mode / 1 point ORP mode
	ISE	1 to 6
	Conductivity	Up to 6
	Temperature Probe	1 point temperature offset calibration
Isopotential Point		7.000 pH (adjustable), 1.000 ISE (adjustable)
Temperature Selection		Manual or automatic with ATC temperature probe
Channels		4 — customizable with modules
Display Type		Color graphic LCD with user-customizable options
Backlight Option		Yes
Keypad		Numeric with menu-specific function keys and dual purpose scroll/shortcut keys
Measurement modes		pH / mV / RmV / ORP / ISE with Temperature, Conductivity / TDS / Salinity / Resistivity with Temperature, Dissolved Oxygen as % saturation or mg/L with temperature and barometric pressure
Stability		Selectable fast, medium, slow or Smart Stability setting; Selectable off or Automatic Smart averaging setting
Data Management Details		Transfer single, range or all data points to printer or computer
Data Points		2000 with date and time stamp
Log Function Type		Automatic data logging with Auto-Read, Timed and Single Shot measure modes; manual data logging with Continuous measure mode
Memory		Non-volatile memory preserves data log, calibration log, and meter settings
Alarm Output		Set point alarm, high/low limit alarm, calibration due alarm
Methods		10 per channel with password protection
Languages		English, Spanish, French, Italian, German, Chinese, Portuguese and Korean
Inputs		BNC (pH, ORP, or ISE electrode), pin-tip (reference elctrode), 8 pin MiniDIN (ATC temperature probe), 8 pin MiniDIN (conductivity sensor with built-in temperature), 9 pin MiniDIN (RDO optical or polarographic DO sensor with built-in temperature), two stirrer inputs (stirrer probe)
Outputs		USB (2), RS232
Probe Type		pH electrode, ORP electrode, ISE electrode, reference half-cell electrode, ATC temperature probe, Conductivity sensor, RDO optical dissolved oxygen probe, polarographic dissolved oxygen probe, stirrer probe (includes 8157BNUMD ROSS® Ultra® Triode pH/ATC probe, 013005MD Orion™ DuraProbe Conductivity Cell, 083005MD Orion™ polarographic DO probe, and 096019 Orion™ Star® Stirrer Probe)
Power Supply		Universal AC adapter (included)
AC Adapter		Universal 50-60 Hz, 100-240VAC power adapter (Cat. No. STARA-PWR)
IP Rating		IP-54
Certifications/Compliance		CE, TUV 3-1, FCC Class A
Operating Temperature		5° to 45°C / 41° to 113°F
Relative Humidity Range		5 to 85%, non-condensing
Dimensions (L x W x H)		28 cm x 24 cm x 10 cm / 11 in. x 9.5 in. x 3.9 in. (Modules add ≤ 2 cm / 0.8 in. L & H)
Weight		1.2 kg / 2.5 lb. (Modules add 0.2 kg / 0.5 lb. each)
Warranty		3 year meter and module warranty