

Comparison of REED Water Quality Meters



MODEL	R3500	R3525	R3000SD	R3530	R3100SD
TEMPERATURE					
Measuring Range	32 to 140°F (0 to 60°C)	32 to 230°F (0 to 110°C)	N/A	32 to 194°F (0 to 90°C)	N/A
Accuracy	±1.8°F (1°C)	±0.4°F (0.2°C) + 1 dgt	N/A	±0.4°F (0.2°C) + 1 dgt	N/A
Resolution	0.1°F, 0.1°C	0.1°F, 0.1°C	N/A	0.1°F, 0.1°C	N/A
Automatic Temperature Compensation (ATC)	N/A	Yes, 32 to 212°F (0 to 100°C)	Manual: 33.8 to 212°F (1 to 100°C) Optional ATC Probe (TP-07): 32 to 149°F (0 to 65°C)	Yes, 32 to 212°F (0 to 100°C)	N/A
ORP (mV)					
Measuring Range	N/A	-1999 to 2000 mV	0 to 1999 mV	N/A	N/A
Accuracy	N/A	±(2% rdg + 1 dgt)	±(0.5% rdg + 2 dgt)	N/A	N/A
Resolution	N/A	0.1/1 mV	1 mV	N/A	N/A
pH					
Measuring Range	0.00 to 14.00 pH	0.00 to 14.00 pH	0.00 to 14.00 pH	N/A	N/A
Accuracy	±0.02 pH	±(0.01% rdg + 1 dgt)	±(0.02 pH + 2 dgt)	N/A	N/A
Resolution	0.01 pH	0.01 pH	0.01 pH	N/A	N/A
pH Electrode Compatability	N/A	Any pH electrode with BNC connector	Any pH electrode with BNC connector	N/A	N/A
CONDUCTIVITY					
Measuring Range	N/A	N/A	N/A	0 to 2000µS, 2.00 to 20.00mS	200µS, 2mS, 20mS, 200mS
Accuracy	N/A	N/A	N/A	±2% FS	±(2% rdg + 1 dgt)
Resolution	N/A	N/A	N/A	0.1µS, 0.01mS	0.1µS, 0.001mS, 0.01mS, 0.1mS
TDS (TOTAL DISSOLVED SOLIDS)					
Measuring Range	N/A	N/A	N/A	0 to 1300 ppm, 1.00 to 12.00 ppt	200, 2000, 20,000, 200,000 ppm
Accuracy	N/A	N/A	N/A	±2% FS	±(2% rdg + 1 dgt)
Resolution	N/A	N/A	N/A	1 ppm, 0.01 ppt	0.1, 1, 10, 100 ppm
SALINITY					
Measuring Range	N/A	N/A	N/A	0 to 1000 ppm, 1.00 to 12.00 ppt	0 to 12% [% weight]
Accuracy	N/A	N/A	N/A	±2% FS	±0.5%
Resolution	N/A	N/A	N/A	1 ppm, 0.01 ppt	0.01%
GENERAL SPECIFICATIONS					
Display	Dual LCD	Dual LCD	Dual LCD	Dual LCD	Dual LCD
Backlit Display	N/A	N/A	Yes	N/A	Yes
Data Hold	Yes	N/A	Yes	Yes	Yes
Min	N/A	N/A	Yes	Yes	Yes
Max	N/A	N/A	Yes	Yes	Yes
Datalogging Capabilities	N/A	N/A	Yes	N/A	Yes
Real-Time Clock and Date Stamp	N/A	N/A	Yes	N/A	Yes
Sampling Rate	N/A	N/A	Yes (1, 2, 5, 10, 30, 60, 120, 300, 600, 1800, 3600s)	N/A	Yes (1, 2, 5, 10, 30, 60, 120, 300, 600, 1800, 3600s)
Internal Memory	N/A	N/A	N/A	N/A	N/A
External Memory	N/A	N/A	Yes, expandable up to 16Gb with SD card (optional)	N/A	Yes, expandable up to 16Gb with SD card (optional)
Auto Shut-off	Yes (after 10 mins)	Yes (after 10 mins)	Yes (after 10 mins)	Yes (after 10 mins)	Yes (after 10 mins)
Kick Stand	N/A	N/A	Yes	N/A	Yes
Tripod Mountable	N/A	N/A	Yes	N/A	Yes
Waterproof	Yes	N/A	N/A	Yes	N/A
Low Battery Indicator	Yes	Yes	Yes	Yes	Yes
Power Supply	4 x LR44 Cell Batteries	9V Battery or AC Adapter (optional)	6 x AA Batteries or AC Adapter (optional)	4 x AAA Batteries	6 x AA batteries or AC Adapter (optional)
Battery Life	N/A	N/A	N/A (Sampling Time Dependent)	N/A	N/A (Sampling Time Dependent)
Output	N/A	N/A	Yes	N/A	Yes
PC Connectivity	N/A	N/A	N/A	N/A	N/A
Software	N/A	N/A	N/A	N/A	N/A
Software OS Compatability	N/A	N/A	N/A	N/A	N/A
Product Certifications	CE	CE	CE	CE, IP57	CE
Operating Temperature	32 to 122°F (0 to 50°C)	32 to 122°F (0 to 50°C)	32 to 122°F (0 to 50°C)	32 to 122°F (0 to 50°C)	Meter: 32 to 122°F (0 to 50°C); Probe: 32 to 140°F (0 to 60°C)
Storage Temperature	14 to 122°F (-10 to 50°C)	14 to 140°F (-10 to 60°C)	14 to 140°F (-10 to 60°C)	14 to 140°F (-10 to 60°C)	14 to 140°F (-10 to 60°C)
Operating Humidity	10 to 80% RH	10 to 80% RH	10 to 80% RH	10 to 80% RH	10 to 80% RH
Dimensions	7.3 x 1.6 x 1.6" (185 x 40 x 40mm)	4.3 x 3.0 x 1.2" (108 x 75 x 30mm)	7 x 2.7 x 1.9" (177 x 68 x 45mm)	7.7 x 1.6 x 1.4" (195 x 40 x 36mm)	7 x 2.7 x 1.9" (177 x 68 x 45mm)
Weight	3.1 oz (88g)	4.8 oz (135g)	1.1 lb (489g)	4.8 oz (135g)	1.2 lb (515g)

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