

# Specifications

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edge® (Using pH Kit)	pH	Range*	-2.00 to 16.00 pH; -2.000 to 16.000 pH†	
		Resolution	0.01 pH; 0.001 pH†	
		Accuracy (@25°C/77°F)	±0.01 pH; ±0.002 pH†	
		Calibration	automatic, up to three points (five points†) calibration, 5 standard (7 standard†) buffers available (1.68†, 4.01 or 3.00, 6.86, 7.01, 9.18, 10.01, 12.45†) and two custom buffers†	
		Temperature Compensation*	automatic, -5.0 to 100.0°C (23.0 to 212.0°F) (using integral temperature sensor)	
		Electrode Diagnostics	standard mode: probe condition, response time and out of calibration range	
	mV pH	Range	±1000 mV	
		Resolution	0.1 mV	
		Accuracy (@25°C/77°F)	±0.2 mV	
Additional Specifications	Probe (included in pH kit)	HI11310 digital glass body pH electrode with 3.5 mm (1/8") connector and 1 m (3.3') cable		
	Logging	up to 1000† (400 for basic mode) records organized in: manual log-on-demand (max. 200 logs), manual log-on-stability (max. 200 logs), interval logging† (max. 600 samples; 100 lots)		
edge® (Using EC Kit)	EC	Range	0.00 to 29.99 µS/cm; 30.0 to 299.9 µS/cm; 300 to 2999 µS/cm; 3.00 to 29.99 mS/cm; 30.0 to 200.0 mS/cm; up to 500.0 mS/cm absolute EC**	
		Resolution	0.01 µS/cm; 0.1 µS/cm; 1 µS/cm; 0.01 mS/cm; 0.1 mS/cm	
		Accuracy (@25°C/77°F)	±1% of reading (±0.5 µS or 1 digit, whichever is greater)	
		Calibration	single cell factor calibration; six standards available: 84 µS/cm, 1413 µS/cm, 5.00 mS/cm, 12.88 mS/cm, 80.0 mS/cm, 118.8 mS/cm, one point offset: 0.00 µS/cm	
		Temperature Coefficient	0.00 to 6.00%/°C (for EC and TDS only), default value is 1.90%/°C	
	TDS	Range	0.00 to 14.99 mg/L (ppm); 15.0 to 149.9 mg/L (ppm); 150 to 1499 mg/L (ppm); 1.50 to 14.99 g/L; 15.0 to 100.0 g/L; up to 400.0 g/L absolute TDS using 0.80 conversion factor**	
		Resolution	0.01 mg/L (ppm); 0.1 mg/L (ppm); 1 (ppm); 0.01 g/L; 0.1 g/L	
		Accuracy (@25°C/77°F)	±1% of reading (±0.03 ppm or 1 digit, whichever is greater)	
		Calibration	through EC calibration	
	Salinity†	Range	0.0 to 400.0 % NaCl; 2.00 to 42.00 PSU; 0.0 to 80.0 g/L	
		Resolution	0.1 % NaCl; 0.01 PSU; 0.01 g/L	
		Accuracy (@25°C/77°F)	±1% of reading	
		Calibration	PSU and g/L through EC calibration; % NaCl – one-point with HI7037 sea water standard	
	Additional Specifications	Probe (included in EC kit)	HI763100 digital four-ring conductivity probe with 3.5 mm (1/8") connector and 1 m (3.3') cable	
		Logging	up to 1000† (400 for basic mode) records organized in: manual log-on-demand (max. 200 logs), manual log-on-stability (max. 200 logs), interval logging† (max. 600 samples; 100 lots)	
	edge® (Using DO Kit)	DO	Range	0.00 to 45.00 ppm (mg/L); 0.0 to 300.0 % saturation
			Resolution	0.01 ppm (mg/L); 0.1 % saturation
Accuracy			± 1.5% of reading ±1 digit	
Calibration			one or two-point at 0% (HI7040 solution) and 100% (in air)	
Temperature Compensation			ATC (0 to 50°C; 32.0 to 122.0°F)*	
Salinity Compensation			0 to 40 g/L (with 1 g/L resolution)	
Altitude Compensation			-500 to 4000 m (-1640 to 13120') (with 100 m (328') resolution)	
Additional Specifications		Probe (included in DO kit)	HI764080 digital dissolved oxygen electrode with 3.5 mm (1/8") connector and 1 m (3.3') cable (included)	
		Logging	up to 1000 records organized in: manual log-on-demand (max. 200 logs), manual log-on-stability (max. 200 logs), interval logging (max. 600 samples; 100 lots)	
All Models	Temperature	Range*	-20.0 to 120.0°C; -4.0 to 248.0°F	
		Resolution	0.1°C; 0.1°F	
		Accuracy	±0.5°C; ±0.9°F	
	Additional Specifications	Connectivity	1 USB port for storage; 1 micro USB port for charging and PC connectivity	
		Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing	
		Power Supply	5 VDC adapter (included)	
		Dimensions	202 x 140 x 12 mm (7.9" x 5.5" x 0.5")	
		Weight	250 g (8.82 oz.)	

\* temperature limits will be reduced to actual probe limits

\*\* with temperature compensation function disabled

† standard mode only