








Multi-Parameter
CyberScan
Waterproof Handheld
Meters Specifications

		PCD 650	PC 650	PD 650	CD 650	PD 300	PC 300	PC 10
Multi-Parameter Handheld Meters Specifications								
Measuring Parameter		pH / ORP / Ion / Conductivity / TDS / Salinity / Resistivity / Dissolved Oxygen / °C / °F	pH / ORP / Ion / Conductivity / TDS / Salinity / Resistivity / °C / °F	pH / ORP / Ion / Dissolved Oxygen / °C / °F	Conductivity / TDS / Salinity / Resistivity / Dissolved Oxygen / °C / °F	pH / Dissolved Oxygen / °C / °F	pH / Conductivity / TDS / °C / °F	pH / Conductivity / °C
Highlights		Waterproof, GLP, RS232C, IrDA, multi-parameter display				Waterproof with back lighting	Waterproof, speciality probe compatible	Waterproof, combined multi-submersible probe
pH	Range	-2.000 to 20.000 pH			–	-2.00 to 16.00 pH		0.00 to 14.00 pH
	Resolution	0.1 / 0.01 / 0.001 pH			–	0.01 pH		–
	Accuracy	±0.002 pH			–	±0.01 pH		–
	Cal. Points	1 (offset) to 6-points			–	5		3
	Auto-Buffer Recognition	Yes			–	Yes		–
	Slope & Offset Display	Yes			–	Yes		–
Ion	Range	0.001 to 19900			–	–		–
	Resolution	2 or 3 digits			–	–		–
	Accuracy	0.5 % full scale (monovalent) ; 1 % full scale (divalent)			–	–		–
	Cal. Points	Up to 8			–	–		–
ORP	Range	±2000.0 mV			–	–		–
	Resolution	0.1 mV			–	–		–
	Accuracy	±0.2 mV			–	–		–
Temperature	Range	-10.0 to 110.0 °C / 14.0 to 230.0 °F (meter) 0 to 60.0 °C / 32 to 140 °F (for DO)	-10.0 to 110.0 °C / 14.0 to 230.0 °F (meter)	-10.0 to 110.0 °C / 14.0 to 230.0 °F (meter) 0 to 60.0 °C / 32 to 140 °F (for DO)		-10.0 to 110.0 °C / 14.0 to 230.0 °F (meter)		0.0 to 80.0 °C (with supplied probe)
	Resolution	0.1 °C / 0.1 °F						0.1 °C
	Accuracy	±0.5 °C / ±0.9 °F				0.3 °C	±0.5 °C / ±0.9 °F	±0.5 °C
Conductivity	Range	.. to 2.000 µS/cm 2.000 to 300.0 µS/cm 300.0 µS to 4.000 mS 4.000 to 40.00 mS/cm 40.00 to 500.0 mS/cm	–	–	.. to 2.000 µS/cm 2.000 to 300.0 µS/cm 300.0 µS to 4.000 mS 4.000 to 40.00 mS/cm 40.00 to 500.0 mS/cm	–	.. to 19.99 / 199.9 / 1999 µS/cm ; .. to 19.99 / 199.9 / 1999 mS/cm	.. to 19.99 / 199.9 / 1999 µS/cm ; .. to 19.99 mS/cm
	Resolution	0.01µS/cm / 0.1 µS/cm / 0.001mS/cm / 0.01mS/cm / 0.1 mS/cm	–	–	0.01µS/cm / 0.1µS/cm / 0.001mS/cm / 0.01mS/cm / 0.1 mS/cm	–	0.01 / 0.1 / 1 µS/cm ; 0.01 / 0.1 mS/cm	0.01 / 0.1 / 1 µS/cm ; 0.01 mS/cm
	Accuracy	±1 % full scale + 1 LSD		–	±1 % full scale + 1 LSD		±1 % full scale + 1 LSD	
	Cal. Points	4 (1 per range) auto, 5 (1 per range) manual		–	4 (1 per range) auto, 5 (1 per range) manual		5 (1 per range) manual	4 (1 per range) manual
	Cell Constant (K)	0.010 to 10.000		–	0.010 to 10.000		1.0	
	Temperature Coefficient	Linear & pure		–	Linear & pure		0.0 to 10.0 % (adjustable)	2.00 %
	Normalisation Temperature	15 to 30 °C		–	15 to 30 °C		15.0 to 30.0 °C (adjustable)	25 °C
	Auto-Ranging	Yes		–	Yes		Yes	
TDS	Range (Depending On TDS Factor)	.. to 2.000 ppm 2.000 ppm to 300.0 ppt 300.0 ppm to 4.000 ppt 4.000 ppt to 40.00 ppt 40.00 ppt to 500.0 ppt	–	–	.. to 2.000 ppm 2.000 ppm to 300.0 ppt 300.0 ppm to 4.000 ppt 4.000 ppt to 40.00 ppt 40.00 ppt to 500.0 ppt	–	.. to 999/999/999 ppm ; .. to 9.99 / 99.9 ppt ; Max of 199.9 ppt based on factor setting	–
	Resolution	0.01 ppm / 0.1 ppm / 0.001 ppt / 0.01 ppt / 0.1 ppt	–	–	0.01 ppm / 0.1 ppm / 0.001 ppt / 0.01 ppt / 0.1 ppt	–	0.01 / 0.1 / 1 ppm ; 0.01 / 0.1 ppt	–
	Accuracy	±1 % full scale + 1 LSD		–	±1 % full scale + 1 LSD		±1 % full scale + 1 LSD	
	Conversion Factor	0.40 to 1.0		–	0.40 to 1.0		0.40 to 1.0	

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Salinity	Range	... to 0.770 ppm 0.770 ppm to 143.3 ppt 143.3 ppt to 2.138 ppt 2.138 ppt to 23.64 ppt 23.64 ppt to 80.00 ppt		-	... to 0.770 ppm 0.770 ppm to 143.3 ppt 143.3 ppt to 2.138 ppt 2.138 ppt to 23.64 ppt 23.64 ppt to 80.00 ppt		-	
	Resolution	0.01 ppm / 0.1 ppm / 0.001 ppt / 0.01 ppt		-	0.01 ppm / 0.1 ppm / 0.001 ppt / 0.01 ppt		-	
	Accuracy	±1 % full scale + 1 LSD		-	±1 % full scale + 1 LSD		-	
Resistivity	Range	2.000 Ω to 25.00 Ω 25.00 Ω to 250.0 Ω 250.0 Ω to 3.333 kΩ 3.333 kΩ to 500.0 kΩ 500.0 kΩ to 20.00 MΩ		-	2.000 Ω to 25.00 Ω 25.00 Ω to 250.0 Ω 250.0 Ω to 3.333 kΩ 3.333 kΩ to 500.0 kΩ 500.0 kΩ to 20.00 MΩ		-	
	Resolution	0.01 Ω / 0.1 Ω / 0.001 Ω / 0.1 Ω / 0.01 MΩ		-	0.01 Ω / 0.1 Ω / 0.001 Ω / 0.1 Ω / 0.01 MΩ		-	
	Accuracy	1 % full scale		-	1 % full scale		-	
Dissolved Oxygen	Range	0.00 to 90.00 mg/L or ppm	-	0.00 to 90.00 mg/L or ppm		0.00 to 20.00 mg/L or ppm	-	-
	Resolution	0.01 mg/L ; 0.01 ppm	-	0.01 mg/L ; 0.01 ppm			-	-
	Accuracy	±0.2 mg/L	-	±0.2 mg/L		±1.5 % full scale	-	-
	Cal. Points	1	-	1			-	-
% Saturation of Oxygen	Range	0 to 600.0 %	-	0 to 600.0 %		0.0 to 200.0 %	-	-
	Resolution	0.1 %	-	0.1 %		0.1 %	-	-
	Accuracy	±2.0 %	-	±2.0 %		±1.5 % full scale	-	-
Salinity Correction	Range	0.0 to 50.0 ppt	-	0.0 to 50.0 ppt		0.0 to 50.0 ppt	-	-
	Resolution	0.1 ppt	-	0.1 ppt			-	-
	Method	Automatic / manual	-	Automatic correction after manual input	Automatic / manual	Automatic correction after manual input	-	-
Barometric Pressure Correction	Range	450 to 825 mmHg or 59.9 to 109.9 kPa	-	450 to 825 mmHg or 59.9 to 109.9 kPa		500 to 1499 mmHg or 66.6 to 199.9 kPa	-	-
	Resolution	0.1 mmHg or 0.1 kPa	-	0.1 mmHg or 0.1 kPa			-	-
	Method	Automatic correction with built-in sensor	-	Automatic correction with built-in sensor		Automatic correction after manual input	-	-
Meter Features	Temperature Compensation	ATC / MTC (0 to 100 °C)						
	GLP	Yes				-		
	Cal-Due Alarm	Yes				-		
	IP67	Yes						
	Datalogging	Yes				-		
	Memory	500 data sets				50 data sets		-
	Operating Temperature	0 to 50 °C						
	Ready Function	Yes						
	Hold Function	Yes						
	LCD Display	Dot-matrix LCD with backlight (5.4 x 7.1 cm)				Dual-display LCD with backlight (5.8 x 3.3 cm)		Dual-display LCD (5.8 x 3.3 cm)
	Auto-Off	2 to 30 mins after last key pressed				20 mins after last key pressed		
	Input	DC phono sockets, BNC, 8-pin connector, 6-pin connector	DC phono sockets, BNC, 8-pin connector	DC phono sockets, BNC, 8-pin connector, 6-pin connector	DC phono sockets, 6-pin connector, 8-pin connector	BNC, 6-pin connector		6-pin connector
	Output	IrDA, RS232C (via LED) *						
Power	4 x 1.5 V 'AA' alkaline batteries or 9V DC adapter, 500 mA				4 x 1.5 V 'AAA' alkaline batteries			
Battery Life	> 200 hrs		> 400 hrs		> 200 hrs		> 50 hrs	
Dimensions (LxWxH); Weight	Meter	18.3 x 9.5 x 5.7 cm ; 460 g				19 x 10 x 6 cm ; 700 g		19 x 10 x 6 cm ; 320 g
	Boxed	40 x 33 x 10 cm ; 3200 g				40 x 33 x 10 cm ; 2180 g		

* RS232C (LED) interface adapter available as separate accessory (see page 82 for order information)