



HERON
INSTRUMENTS INC.
For Good Measure

Conductivity + (Series 1700)



Reel Assembly:		Standard	Large	Tape:	
Height		36cm (14")	43cm (17")	Tape	High Tensile Stainless Steel
Depth		21cm (8.25")	23cm (9")	Jacketing	Polyethylene
Width		29cm (11")	34cm (13.5")	Conductors	7 Strand (4 SS316 & 3 Copper)
Weight (Reel Assembly Only)		2.60kg (5.7lb)	4.2kg (9.3lbs)	Markings	Metric or Engineering Scale - Under
Plate Size		27cm (10.5")	34cm (13.5")	Width	J k t i 9.5mm (3/8")
Plate Material		Nylon Fibre Composite	Aluminum	Dog Bone Profile	Dogbone for low friction
Brake		Ergonomic Dial	Ergonomic Dial	Break Strength	125kg (280lbs)
Stainless Ball Bearing		YES	YES	Accuracy	ASME B89.1.7-2009, MIL-STD-45662A, ISO 10012-2003
Hanger		Included on frame	Included on frame	Accuracy Compliance	FED GGG-T-106F, EEC Class II, USGG-T-
Tape Guide		Included on frame	Included on frame	Accuracy Compliance	FED GGG-T-106F, EEC Class II, USGG-T-
Field Testing		Included Test Bottle	Included Test Bottle	Break Strength	127Kg (280lbs)
Tape Lengths		30m, 100ft	200m, 750ft		
		60m, 200ft	300m, 1000ft		
		100m, 300ft	Ask about lengths up to 5000F		
		150m, 500ft			
Electronic Panel:			Link & Probe:		
Field Replaceable	Yes (with philips #2 screwdriver)		IP Rating	IP68	
Screen	LCD		Weight	125g (4.4oz)	
Water resistance	IP67		Length	16mm	
Temperature Units	°C, °F, °K, °R		Diameter	16mm(5/8")	
Conductivity Unit	µS/cm		Maximum Recommended Probe	70°C (160°F)	
Battery Indicator	On startup - LCD display and audio indication		Removable	Yes- Field Replaceable	
Visual Indications	LED Light and LCD Display		Depth Rating	1.5km (5,000ft)	
Audible Indications	Volume adjustable buzzer, Silence button		Break Strain	Yes 70kg (150lbs)	
Buttons	Button 1 (Power/hold for Units), Button 2 (Silence/hold to Calibrate)		Probe Wetted Materials	Stainless Steel 316, Delrin, Gold, Buna. PFAS Free	
			Standard Link Wetted Materials	Stainless Steel 316, Delrin, Polyurethane, Buna. PFAS Free	
			PFAS Status	Manufactured with wetted materials not known to contain PFAS	
Conductivity Accuracy	Test Condition Range	Typical	Max Deviation	Calibration Solution	
Conditional upon calibrating to all 4 calibration points	10-3206µS/cm	+/-1%	+/-2%	1413µS/cm	
	3207-8940µS/cm	+/-1.25%	+/-2%	5000µS/cm	
	8941-62340µS/cm	+/-1.25%	+/-2%	12880µS/cm	
	62341-250000µS/cm	+/-1.5%	+/-3%	111800µS/cm	
Conductivity Repeatability	8 Averages	+/-0.06%	+/-0.2%		
Conductivity Resolution	1µS/cm	Conductivity Response	<1 second (After temperature stabilization)		
Recommended Conductivity Reading	10-250000µS/cm	Lifetime Conductivity Stability	Dependent on usage. For best results, recalibrate often.		
Total Conductivity Reading Range	10-999999µS/cm	Temperature Compensation	Temperature compensated to be expressed at international standard of 25°C		
Calibration Range Solutions (Factory)	1413µS/cm, 5000µS/cm, 12880µS/cm, 111800µS/cm	Temperature Compensation	2%/°C		
Conductivity Calibration Point	Closest to Reading				
Temperature Accuracy Typical	Test Condition	Typical	Max		
Temperature Accuracy Typical	-20°C to +50°C	+/-0.05°C	+/-0.1°C		
Temperature Resolution	0.0078°C	Lifetime Temperature Stability	300 hours continual reading at 70°C	+/-0.03°C	
Temperature Reading Range	-40°C to +70°C	Temperature	8 Averages	+/-0.0078°C	

Temperature compensated range	-20°C to +70°C	Temperature cycling and hysteresis	8 Averages	+/-0.0078°C
Temperature Response Time	10 seconds per degree Celsius			
Temperature sensor meets ASTM E1112 and ISO 80601-2-56. Nist Traceability.				
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