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**	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 Certification**	ASME B89.1.7-2009, MIL-STD-45662A, ISO 10012-2003
Hanger	Included on frame	Included on frame		
Tape Guide	Included on frame	Included on frame	**Accuracy Compliance**	FED GGG-T-106F, EEC Class II, USGG-T-
Field Testing	Included Test Kit	Included Test Kit	**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:**	Snag Free Design
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

Conductiv ity 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
Conductiv ity Repeatability	8 Averages	+/-0.06%	+/-0.2%	
Conductiv ity Resolution	1µS/cm	**Conductiv ity Response**	<1 second (After temperature stabilization)	
Recommended Conductivity Reading	10-250000µS/cm	**Lifetime Conductivity Stability**	Dependent on usage. For best results, recalibrate often.	
Total Conductiv ity Reading Range	10-999999µS/cm	**Temperature Compensation**	Temperature compensated to be expressed at international standard of 25°C	
Calibration Range Solutions	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.				