

Lake Shore Temperature Controllers



	Description	Application focus	Standard number of sensor inputs (optional)	Nominal low temperature capability (with appropriate sensor)	Target refrigeration systems							Standard compatible sensors	Optional compatible sensors	Nominal high temperature capability (with appropriate sensor)	Number of outputs	Total heater power (max)
					Simple Dewars, LN cryostats (>4.2 K)	Flow He-4 cryostats (4.2 K)	Closed cycle refrigerators (CCRs) (3 to 4 K)	Pumped He-4 systems (1.4 K)	Pumped He-3 systems (300 mK)	Adiabatic demagnetization refrigerators (ADRs) (50+ mK)	Dilution refrigerators (DRs) (10 to 100 mK)					
Model 325	Low Cryogenic Temperature Controller	Great for general purpose cryogenic measurement and control applications	2	1.2 K								Cernox™, silicon diodes, other NTC RTDs, PTD RTDs	Thermocouples	420 K (Cernox) 1500 K (thermocouple)	2	25 W + 2 W
Model 335	Advanced Low Cryogenic Temperature Controllers	Precision measurement and control over a broad range of cryogenic and higher temperature applications	2	300 mK								Cernox™, silicon diodes, other NTC RTDs, PTD RTDs	Thermocouples	420 K (Cernox) 1500 K (thermocouple)	2	75 W + 1 W or 50 W + 25 W
Model 336			4 (8)										Thermocouples, capacitance	1500 K (thermocouple)	4	100 W + 50 W
Model 350	Ultra-Low Cryogenic Temperature Controller	Powerful physics tool for ultra-low temperature research platforms and applications	4 (8)	100 mK								Cernox™, ruthenium oxide (Rox™), platinum RTDs, other NTC RTDs	Silicon diodes, thermocouples, capacitance	420 K (Cernox) 1500 K (thermocouple)	4	75 W + 1 W + 1 W + 1 W
Model 372	AC Resistance Bridge/Advanced Ultra-Low Cryogenic Temperature Controller	Extreme precision measurement and control for the world's lowest temperature research systems	2 (17)	<20 mK								Cernox™, ruthenium oxide (Rox™), germanium, other NTC RTDs	—	420 K (Cernox)	3	10 W + 1 W + 1 W

Lake Shore Temperature Controllers

www.lakeshore.com



Model 325
Low Cryogenic
Temperature Controller



Model 335 and Model 336
Advanced Low Cryogenic
Temperature Controllers



Model 350
Ultra-Low Cryogenic
Temperature Controller

Model 372
AC Resistance Bridge/
Advanced Ultra-Low Cryogenic
Temperature Controller

