

PRODUCT COMPARISON

Ectron Models 1140A, 1120, and 1100 Thermocouple Simulator-Calibrators

All Specifications Include Cold-Junction Compensation*

		1140A	1120	1100
Available T/C types		12	10	4
	Standard in Basic Unit	Yes	No (Optional Plug-in)	Yes
	T/C Types Available	B, C, D, E, G, J, K, N, PL2, R, S, T	B, C, E, J, K, N, PL2, R, S, T	E, J, K, T
Modes				
	Simulate T/C	Yes	Yes	Yes
	Output DC	Yes	Yes	Yes
	Measure T/C	Yes, autoranging	No	Yes, manual
	Measure DC	Yes, autoranging	No	Yes, manual
Resolution				
	DC Source or Measure	Full 7 digits	Full 6 digits	Full 5 digits
	T/C Source or Measure	Full 6 digits	Full 6 digits	Full 5 digits
	DC Resolution	0.01 μ V	0.1 μ V	0.1 μ V
	T/C Resolution	0.01°C	0.1°C	0.1°C
DC Accuracy				
	30 Days	$\pm 0.002\% \pm 1.0 \mu$ V	$\pm 0.005\% \pm 3 \mu$ V	$\pm 0.01\% \pm 4 \mu$ V
	6 Months	$\pm 0.0025\% \pm 2.0 \mu$ V	$\pm 0.018\% \pm 8 \mu$ V	$\pm 0.02\% \pm 11 \mu$ V
	1 Year	$\pm 0.003\% \pm 2.5 \mu$ V	N/S	N/S
T/C Accuracy				
	Common Ranges (E,J,K,T)	0.06°C	0.15°C	0.2°C
Output Impedance				
		0.05 Ω	0.05 Ω	0.1 Ω
Remote Interfaces				
		USB Included		
	Optionally Available	GPIB, Ethernet, RS-232	GPIB (IEEE-488)	None
Calibration & Realignment				
	General	Simple self cal	Elaborate procedure	Elaborate procedure
	Internal Controls	None	Many internal controls	Many internal controls
	Guided by	Display	Manual	Manual
	Time Required for Customer Alignment	45 minutes	Normally 8 hours	Normally 8 hours

* Most competitors' specifications do not include cold-junction compensation.

