Ice Point Reference



The K170 Ice Point Reference performs ice point referencing for up to 75 thermocouples. The user wires external thermocouples to the unit's input terminals which are in turn connected to matching internal TC's that terminate to copper at the temperature of a thermoelectrically produced ice-water mixture. Thermocouple grade copper wire is taken from ice to MIL style connectors for output. Individual pass thru shield connections can also be provided.



High stability Ice Point Reference Equipment to get the highest accuracy possible from your thermocouples

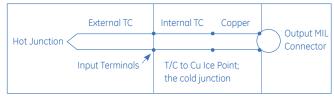
The Kaye Ice Point references offer the ultimate in accuracy in automatic referencing. Used in applications ranging from precision calibration work to routine production testing, the units provide zero long term drift maintaining reference temperature at 0°C.

Three models, K140, K150 and K170, provide ice point references for multiple sensors.

Ice Point Reference with External Calibration Wells The K140 ice point reference, provides 4 calibration wells which accept a number of thermocouples depending on diameter-up to 16 type T, for example.

Ice Point Reference with Built-in Thermocouples For applications where frequent connections are made or when calibrating temperature instruments, the K150 or K170 is convenient. The models have built-in thermocouples connected to matching material posts. The K150 provides references for 2, 4, 6, or 8 sensors. The K-170 Unit provides accurate simultaneous reference for up to 75 thermocouples.

The K170 models with 6 to 75 channels are rack mounted and with matching material terminal strip inputs and Military Standard connectors for outputs-includes mating connectors with wiring diagrams. Shielding can be provided for input and output terminals.



Thermocouple circuit of the K170 with external T/C wire connected to input terminals.

Ice Point Reference Specifications				
Reference Temperature 0°C				
Long Term Drift None				
Stability ±0.02°C typ.				
±0.05°C guar.				
Total Instrument Error ±0.05°C max.				
Number of Channels Up to 75				
Power 115V AC, 60Hz or 230V AC, 50Hz				
Dimensions 483mm W x 273mm D (19"W x 10.75"D)				
Height-See table below.				
Ch Non-Shielded	T/C Shielded			
6 178mm (7")	N/A			
12 178mm (7")	N/A			
24 178mm (7")	178mm (7")			
36 178mm (7")	311mm (12.25")			
50 311mm (12.25")				
75 311mm (12.25")	400mm (15.75")			

Ice Point Reference Specifications				
	K140-4	К150	К170	
Reference Temperature	0°C	0°C	0°C	
Ambient Operating Range	5 to 40°C	5 to 40°C	5 to 40°C	
Long Term Drift	None	None	None	
Stability	0.01°C typ. 0.025°C guar.	0.02°C typ. 0.05°C guar.	0.02°C typ. 0.05°C guar.	
Total Instrument Error*	0.02°C typ. 0.05°C max.	0.05°C max.	0.05°C max.	
Number of Channels	4 Wells	Up to 8	Up to 75	
Power	115VAC, 60Hz or 230VAC, 50Hz	115VAC, 60Hz or 230VAC, 50Hz	115VAC, 60Hz or 230VAC, 50Hz	
Dimensions	6.4:W × 13.5"D × 10.6"H (162W × 343D × 270mmH)	6.4"W × 13.5"D × 11.0"H (162W × 343D × 279mmH)	19"W × 10.75"D (483W × 273mmD)	
			Height-for K170	

Height-for K170			
Ch	Non-Shielded	T/C Shielded	
6	178mm (7")	178mm (7")	
12	178mm (7")	178mm (7")	
24	178mm (7")	178mm (7")	
36	178mm (7")	311mm (12.25")	
50	311mm (12.25")	311mm (12.25")	
75	311mm (12.25")	400mm (15.75")	



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