

# Calibration Options

Select the Part Number that best fits your Calibration needs.  
Contact Burns Customer Service if you need assistance.

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## Secondary Standard PRT by Comparison to SPRT (Provides ITS-90 Coefficients)

		5 Point Calibration				6 Point	3 Point Calibration		4 Point		
Calibrated Temperature (°C)	Expanded Uncertainty k=2 (°C) (Note 1)	Part Number									
		18629-15	18629-16	18629-17	18629-18	18629-19	18629-37	18629-38	18629-39		
-196	0.024	X	X	X	X	X					
-38	0.011	X	X	X	X	X					
0.01	0.010	X	X	X	X	X	X	X	X		
50	0.018	X									
100	0.018	X	X			X				X	
200	0.018		X	X	X		X	X			
300	0.029			X		X	X			X	
420	0.029				X			X			
500	0.029					X				X	

## Digital Thermometer with Precision PRT - System by Comparison to SPRT (Note 2) (Provides ITS-90 Coefficients)

		5 Point Calibration				6 Point	3 Point Calibration			4 Point			
Calibrated Temperature (°C)	Expanded Uncertainty k=2 (°C) (Note 1)	Part Number											
		21330-15	21330-16	21330-17	21330-18	21330-19	21330-35	21330-36	21330-37	21330-38	21330-39		
-196	0.024	X	X	X	X	X							
-38	0.011	X	X	X	X	X							
0.01	0.010	X	X	X	X	X	X	X	X	X	X	X	X
50	0.018	X					X						
100	0.018	X	X			X	X	X					X
200	0.018		X	X	X		X	X	X	X	X		
300	0.029			X		X			X				X
420	0.029				X					X			
500	0.029					X							X

NOTE 1: The sensor performance is included in the uncertainty of the calibration. The uncertainties listed above are based on the Burns Engineering 12001 style PRT or equivalent. The actual uncertainty for the calibration on your sensor / system may be different than the values listed above. See Burns Engineering's Scope of Accreditation under NVLAP Lab Code 200706-0 for the lab's best uncertainty.

NOTE 2: System calibrations include: as found system data at all calibration temperatures listed, sensor calibrations, input of the new sensor coefficients into the digital readout, and as-left data at all calibration temperatures listed. (CVD coefficients available upon request)

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## Industrial PRT by Comparison to SPRT (Provides CVD Coefficients)

### 4 Point Calibration

Calibrated Temperature (°C)	Expanded Uncertainty k=2 (°C) (Note 1)	Part Number									
		18630-15	18630-16	18630-17	18630-18	18630-19	18630-25	18630-26	18630-27	18630-28	18630-29
-196	0.025	X	X	X	X	X					
-38	0.025						X	X	X	X	X
0	0.025	X	X	X	X	X	X	X	X	X	X
50	0.025	X					X				
100	0.025	X	X				X	X			
200	0.025		X	X	X	X		X	X	X	X
300	0.050			X					X		
420	0.050				X					X	
500	0.050					X					X

### 3 Point Calibration

Calibrated Temperature (°C)	Expanded Uncertainty k=2 (°C) (Note 1)	Part Number				
		18630-35	18630-36	18630-37	18630-38	18630-39
0	0.025	X	X	X	X	X
50	0.025	X				
100	0.025	X	X			
200	0.025		X	X	X	X
300	0.050			X		
420	0.050				X	
500	0.050					X

NOTE 1: The sensor performance is included in the uncertainty of the calibration. The uncertainties listed above are based on the Burns Engineering Series 200 style RTD or equivalent. The actual uncertainty for the calibration on your sensor may be different than the values listed above. See Burns Engineering's Scope of Accreditation under NVLAP Lab Code 200706-0 for the lab's best uncertainty.