

Friday, December 10, 2021, Time 08:08

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 50.50.0.W #2

Thickness: 29.05mm

Rear Left : 29.08 mm

Rear Right : 29.24 mm

Front Left: 28.85 mm

Front Right: 29.03 mm

[ ]

[ ]

Thickness obtained : from instrument

## TEST RUN

Calibration used : User Type

Calibration File Id: IRMMCalibration\_sn2520

Number of transducers per plate: 1

Number of transducers used per plate: 1

Number of Setpoints: 3

Setpoint duration: 76 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.11	23.83	-6532	7175	0.5931
-ne-	15.02	24.98	-4562	3041	0.2879
-te-	15.01	25.02	-4200	3007	0.2717
-te-	15.01	25.02	-4008	3079	0.2673
-te-	15.01	25.02	-3910	3124	0.2651
-te-	15.01	25.02	-3839	3151	0.2635
-te-	15.01	25.02	-3791	3178	0.2628
-pe-	15.00	25.01	-3772	3191	0.2625
-pe-	15.00	25.01	-3752	3198	0.2620
-pe-	15.00	25.01	-3735	3209	0.2618
-pe-	15.00	25.01	-3720	3218	0.2615
-pe-	15.00	25.01	-3714	3218	0.2613
-pe-	15.01	25.02	-3710	3220	0.2612
-pe-	15.01	25.02	-3708	3221	0.2612
-pe-	15.01	25.02	-3706	3219	0.2611
-pe-	15.01	25.02	-3706	3219	0.2611
-pe-	15.01	25.01	-3706	3219	0.2611
-pe-	15.00	25.01	-3710	3217	0.2612

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Setpoint No. 1

Setpoint Upper: 15.00 °C

Setpoint Lower: 25.00 °C

Temperature Upper: 15.01 °C

CalibFactor Upper: 0.026016

Results Upper: 0.2799 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.2423 W/mK

Percent Difference: 14.43%

Thermal Equilibrium Criteria:

Temperature Equilibrium: 0.20

Between Block HFM Equil.: 49

HFM Percent Change: 2.00

Min Number of Blocks: 4

Calculation Blocks: 3

Setpoint duration: 84 min

## Block Averages for setpoint 2 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	10.09	20.04	-12064	-2708	0.5662
-te-	10.00	20.00	-7499	1418	0.3399
-te-	10.00	20.00	-6347	1919	0.3150
-te-	10.00	20.00	-5522	2286	0.2973
-te-	10.00	20.00	-4948	2545	0.2851
-te-	10.00	20.00	-4552	2722	0.2766
-te-	10.00	20.00	-4268	2852	0.2707
-te-	10.00	20.01	-4070	2943	0.2665
-te-	10.00	20.01	-3935	3010	0.2639
-te-	10.00	20.01	-3844	3047	0.2618
-te-	10.00	20.01	-3782	3073	0.2604
-te-	10.00	20.01	-3732	3101	0.2595
-te-	10.01	20.01	-3696	3112	0.2587
-pe-	10.00	20.01	-3685	3115	0.2582
-pe-	10.00	20.00	-3675	3119	0.2580
-pe-	10.00	20.00	-3662	3127	0.2579
-pe-	10.00	20.01	-3647	3135	0.2575
-pe-	10.00	20.01	-3642	3140	0.2575
-pe-	10.00	20.01	-3638	3135	0.2572
-pe-	10.00	20.01	-3641	3134	0.2573

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Setpoint No. 2  
Setpoint Upper: 10.00 °C  
Setpoint Lower: 20.00 °C  
Temperature Upper: 10.00 °C  
CalibFactor Upper: 0.026312  
Results Upper: 0.2782 W/mK  
Temperature Lower: 20.01 °C  
CalibFactor Lower: 0.025969  
Results Lower: 0.2365 W/mK  
Percent Difference: 16.18%

Thermal Equilibrium Criteria:  
Temperature Equilibrium: 0.20  
Between Block HFM Equil.: 49  
HFM Percent Change: 2.00  
Min Number of Blocks: 4  
Calculation Blocks: 3

Setpoint duration: 110 min

## Block Averages for setpoint 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.16	15.04	-11856	-2685	0.5661
-te-	4.99	15.00	-7372	1395	0.3375
-te-	5.00	15.01	-6243	1862	0.3114
-te-	5.00	15.01	-5435	2218	0.2937
-te-	5.00	15.00	-4866	2476	0.2815
-te-	5.00	15.00	-4470	2654	0.2728
-te-	5.00	15.00	-4191	2784	0.2670
-te-	5.00	15.01	-4007	2866	0.2630
-te-	5.00	15.00	-3874	2924	0.2600
-te-	5.00	15.00	-3788	2961	0.2581
-te-	5.00	15.01	-3734	2991	0.2572
-te-	5.00	15.01	-3692	3007	0.2562
-pe-	5.00	15.00	-3672	3018	0.2557
-pe-	4.99	15.00	-3648	3028	0.2552
-pe-	4.99	15.00	-3636	3035	0.2550
-pe-	4.99	15.00	-3623	3038	0.2546
-pe-	4.99	15.00	-3613	3048	0.2547
-pe-	5.00	15.00	-3602	3051	0.2543
-pe-	5.00	15.00	-3597	3053	0.2542
-pe-	5.00	15.00	-3590	3058	0.2541
-pe-	5.00	15.00	-3585	3058	0.2540
-pe-	5.00	15.00	-3583	3059	0.2539
-pe-	5.00	15.01	-3586	3059	0.2540
-pe-	5.00	15.01	-3580	3062	0.2539

-pe-	5.00	15.01	-3578	3063	0.2538
-pe-	5.00	15.01	-3576	3062	0.2537

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Setpoint No.	3		
Setpoint Upper:	5.00	°C	
Setpoint Lower:	15.00	°C	
Temperature Upper:	5.00	°C	
CalibFactor Upper:	0.026610		
Results Upper:	0.2764	W/mK	
Temperature Lower:	15.01	°C	
CalibFactor Lower:	0.026002		
Results Lower:	0.2312	W/mK	
Percent Difference:	17.82%		

Thermal Equilibrium Criteria:	
Temperature Equilibrium:	0.20
Between Block HFM Equil.:	49
HFM Percent Change:	2.00
Min Number of Blocks:	4
Calculation Blocks:	3

Results Table -- SI Units

Mean Temp	Upper Cond	Lower Cond	Average Cond
20.01	0.2799	0.2423	0.2611
15.00	0.2782	0.2365	0.2573
10.00	0.2764	0.2312	0.2538