

Wednesday, January 04, 2023, Time 10:51

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: rec-s1-2023-01-04

Thickness: 28.71mm

Rear Left : 28.63 mm

Rear Right : 28.68 mm

Front Left: 28.73 mm

Front Right: 28.80 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	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	15.29	24.02	-6009	6060	0.5152
-ne-	14.98	24.98	-4351	2992	0.2738
-te-	15.00	25.01	-4017	3174	0.2680
-te-	15.01	25.02	-3862	3399	0.2705
-te-	15.01	25.02	-3754	3565	0.2727
-te-	15.01	25.02	-3681	3672	0.2739
-te-	15.01	25.02	-3629	3747	0.2748
-te-	15.01	25.02	-3593	3802	0.2755
-te-	15.01	25.02	-3571	3834	0.2758
-pe-	15.00	25.01	-3559	3847	0.2759
-pe-	15.00	25.01	-3548	3863	0.2761
-pe-	15.00	25.01	-3541	3876	0.2764
-pe-	15.00	25.01	-3536	3891	0.2767
-pe-	15.00	25.01	-3535	3895	0.2768
-pe-	15.00	25.01	-3532	3898	0.2768
-pe-	15.00	25.01	-3531	3904	0.2770
-pe-	15.01	25.01	-3530	3908	0.2771
-pe-	15.01	25.02	-3532	3902	0.2769

Wednesday, January 04, 2023, Time 12:08

Setpoint No. 1

Setpoint Upper: 15.00 °C

Setpoint Lower: 25.00 °C

Temperature Upper: 15.01 °C

CalibFactor Upper: 0.026016

Results Upper: 0.2635 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.2905 W/mK

Percent Difference: 9.74%

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: 72 min

## Block Averages for setpoint 2 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	10.09	20.05	-8149	-4405	0.4736
-te-	10.00	20.00	-5778	186	0.2251
-te-	10.00	19.99	-5097	1237	0.2388
-te-	10.00	20.00	-4585	2028	0.2489
-te-	10.00	20.00	-4226	2588	0.2561
-te-	10.00	20.00	-3975	2982	0.2613
-te-	10.00	20.01	-3804	3243	0.2646
-te-	10.01	20.01	-3683	3429	0.2669
-te-	10.01	20.01	-3607	3545	0.2683
-te-	10.00	20.01	-3550	3632	0.2694
-te-	10.01	20.01	-3509	3693	0.2701
-te-	10.01	20.01	-3481	3736	0.2707
-pe-	10.00	20.00	-3466	3749	0.2706
-pe-	10.00	20.00	-3452	3771	0.2709
-pe-	10.00	20.00	-3442	3784	0.2710
-pe-	10.00	20.00	-3436	3793	0.2711
-pe-	10.00	20.00	-3436	3793	0.2711

Wednesday, January 04, 2023, Time 13:20

Setpoint No. 2  
 Setpoint Upper: 10.00 °C  
 Setpoint Lower: 20.00 °C  
 Temperature Upper: 10.00 °C  
 CalibFactor Upper: 0.026313  
 Results Upper: 0.2597 W/mK  
 Temperature Lower: 20.00 °C  
 CalibFactor Lower: 0.025969  
 Results Lower: 0.2825 W/mK  
 Percent Difference: 8.43%

## 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: 93 min

## Block Averages for setpoint 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.18	15.05	-7926	-4336	0.4703
-te-	4.99	14.99	-5650	184	0.2226
-te-	5.00	15.00	-4983	1194	0.2348
-te-	5.00	15.00	-4485	1979	0.2450
-te-	5.00	15.00	-4132	2521	0.2518
-te-	5.00	15.00	-3886	2895	0.2564
-te-	5.00	15.01	-3719	3158	0.2598
-te-	5.00	15.01	-3602	3338	0.2620
-te-	5.00	15.01	-3522	3459	0.2635
-te-	5.00	15.00	-3470	3540	0.2645
-te-	5.00	15.00	-3432	3600	0.2653
-te-	5.00	15.00	-3410	3634	0.2657
-pe-	5.00	15.00	-3396	3655	0.2660
-pe-	5.00	15.00	-3382	3671	0.2661
-pe-	5.00	15.00	-3376	3690	0.2666
-pe-	5.00	15.00	-3371	3697	0.2666
-pe-	5.00	15.00	-3367	3703	0.2667
-pe-	5.00	15.00	-3362	3710	0.2668
-pe-	5.00	15.00	-3358	3716	0.2669
-pe-	5.00	15.01	-3357	3717	0.2668
-pe-	5.00	15.01	-3356	3716	0.2667
-pe-	5.00	15.01	-3359	3713	0.2667

Wednesday, January 04, 2023, Time 14:53

Setpoint No. 3  
 Setpoint Upper: 5.00 °C

Setpoint Lower: 15.00 °C  
Temperature Upper: 5.00 °C  
CalibFactor Upper: 0.026610  
Results Upper: 0.2563 W/mK  
Temperature Lower: 15.01 °C  
CalibFactor Lower: 0.026003  
Results Lower: 0.2772 W/mK  
Percent Difference: 7.83%

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	0.2635	0.2905	0.2770
15.00	0.2597	0.2825	0.2711
10.00	0.2563	0.2772	0.2668