

Wednesday, November 03, 2021, Time 09:47

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: OSa.40.50.10#3

Thickness: 30.28mm

Rear Left : 30.15 mm

Rear Right : 30.20 mm

Front Left: 30.38 mm

Front Right: 30.40 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: 97 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.73	24.33	-9059	4795	0.6332
-ne-	15.00	24.97	-6448	2008	0.3337
-te-	15.00	25.01	-5543	2281	0.3076
-te-	15.00	25.01	-4963	2526	0.2944
-te-	15.00	25.01	-4538	2716	0.2851
-te-	15.01	25.01	-4228	2849	0.2782
-te-	15.01	25.01	-4005	2946	0.2732
-te-	15.01	25.02	-3839	3016	0.2694
-te-	15.00	25.01	-3726	3071	0.2671
-te-	15.01	25.01	-3635	3108	0.2650
-te-	15.01	25.01	-3575	3131	0.2636
-te-	15.01	25.01	-3534	3150	0.2627
-pe-	15.00	25.01	-3508	3164	0.2622
-pe-	15.00	25.01	-3482	3177	0.2616
-pe-	15.00	25.01	-3459	3185	0.2610
-pe-	15.00	25.01	-3446	3190	0.2607
-pe-	15.00	25.02	-3434	3197	0.2605
-pe-	15.00	25.02	-3425	3196	0.2601
-pe-	15.01	25.02	-3421	3198	0.2601
-pe-	15.00	25.01	-3417	3199	0.2600
-pe-	15.00	25.01	-3415	3200	0.2599
-pe-	15.00	25.01	-3414	3201	0.2600
-pe-	15.01	25.01	-3416	3199	0.2600

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Setpoint No.	1	
Setpoint Upper:	15.00	°C
Setpoint Lower:	25.00	°C
Temperature Upper:	15.00	°C
CalibFactor Upper:	0.026016	
Results Upper:	0.2688	W/mK
Temperature Lower:	25.01	°C
CalibFactor Lower:	0.025934	
Results Lower:	0.2511	W/mK
Percent Difference:	6.82%	

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

Setpoint duration: 93 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.18	20.05	-10739	-2551	0.5348
-te-	9.99	20.00	-7262	1452	0.3462
-te-	10.00	20.00	-6265	1841	0.3218
-te-	10.00	20.00	-5491	2170	0.3040
-te-	10.00	20.00	-4917	2420	0.2910
-te-	10.00	20.00	-4496	2610	0.2817
-te-	10.00	20.00	-4186	2745	0.2746
-te-	10.00	20.00	-3962	2844	0.2696
-te-	10.00	20.00	-3801	2914	0.2660
-te-	10.00	20.01	-3685	2966	0.2634
-te-	10.00	20.00	-3597	3003	0.2613
-te-	10.00	20.00	-3536	3032	0.2600
-te-	10.00	20.00	-3486	3052	0.2589
-te-	10.00	20.01	-3458	3063	0.2581
-pe-	10.00	20.00	-3439	3076	0.2580
-pe-	10.00	20.00	-3419	3085	0.2574
-pe-	10.00	20.00	-3402	3089	0.2570
-pe-	10.00	20.00	-3391	3096	0.2568
-pe-	10.00	20.00	-3380	3101	0.2565
-pe-	10.00	20.00	-3374	3103	0.2564
-pe-	10.00	20.01	-3369	3105	0.2562
-pe-	10.01	20.01	-3370	3101	0.2562

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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: 0.2685 W/mK  
Temperature Lower: 20.01 °C  
CalibFactor Lower: 0.025969  
Results Lower: 0.2440 W/mK  
Percent Difference: 9.59%

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: 135 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.25	15.07	-10416	-2535	0.5286
-te-	4.99	15.00	-7130	1415	0.3427
-te-	5.00	15.00	-6153	1776	0.3176
-te-	5.00	15.00	-5391	2102	0.2998
-te-	5.00	15.00	-4827	2347	0.2867
-te-	5.00	15.01	-4409	2530	0.2771
-te-	5.00	15.01	-4109	2660	0.2701
-te-	5.00	15.00	-3891	2755	0.2651
-te-	5.00	15.00	-3733	2825	0.2615
-te-	5.00	15.00	-3619	2875	0.2589
-te-	5.00	15.00	-3534	2914	0.2570
-te-	5.00	15.00	-3469	2943	0.2555
-te-	5.00	15.01	-3425	2959	0.2544
-pe-	4.99	15.00	-3404	2971	0.2540
-pe-	4.99	15.00	-3376	2985	0.2534
-pe-	4.99	15.00	-3354	2992	0.2527
-pe-	5.00	15.00	-3345	2996	0.2525

-pe-	5.00	15.00	-3333	3001	0.2523
-pe-	5.00	15.01	-3324	3004	0.2520
-pe-	5.00	15.00	-3320	3006	0.2520
-pe-	5.00	15.00	-3314	3009	0.2519
-pe-	5.00	15.00	-3312	3008	0.2517
-pe-	5.00	15.00	-3313	3009	0.2518
-pe-	5.00	15.00	-3309	3012	0.2518
-pe-	5.00	15.00	-3308	3013	0.2518
-pe-	5.00	15.00	-3308	3012	0.2517
-pe-	5.00	15.00	-3307	3013	0.2517
-pe-	5.00	15.01	-3306	3014	0.2517
-pe-	5.00	15.01	-3305	3013	0.2517
-pe-	5.00	15.01	-3304	3013	0.2516
-pe-	5.00	15.00	-3304	3014	0.2517
-pe-	5.00	15.00	-3304	3014	0.2517

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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:
0.2661
W/mK

Temperature Lower:
15.01
°C

CalibFactor Lower:
0.026003

Results Lower:
0.2372
W/mK

Percent Difference:
11.49%

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	0.2688	0.2511	0.2600
15.00	0.2685	0.2440	0.2563
10.00	0.2661	0.2372	0.2517