

Saturday, November 06, 2021, Time 12:30

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE\_OSa.50.25.25#3

Thickness: 29.77mm

Rear Left : 29.69 mm

Rear Right : 29.82 mm

Front Left: 29.72 mm

Front Right: 29.84 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-	16.18	24.60	-10895	3352	0.6531
-ne-	14.97	24.95	-7208	2128	0.3620
-te-	15.00	25.01	-5985	2598	0.3318
-te-	15.00	25.01	-5368	2911	0.3200
-te-	15.00	25.01	-4939	3124	0.3116
-te-	15.00	25.01	-4650	3278	0.3063
-te-	15.00	25.01	-4456	3377	0.3027
-te-	15.00	25.01	-4323	3446	0.3002
-te-	15.00	25.01	-4240	3485	0.2985
-te-	15.00	25.01	-4180	3518	0.2974
-te-	15.00	25.01	-4140	3540	0.2968
-pe-	15.00	25.01	-4124	3548	0.2964
-pe-	15.00	25.01	-4101	3562	0.2961
-pe-	15.00	25.01	-4088	3566	0.2957
-pe-	15.00	25.01	-4076	3573	0.2955
-pe-	15.00	25.01	-4071	3576	0.2954
-pe-	15.00	25.01	-4065	3579	0.2953
-pe-	15.00	25.01	-4065	3581	0.2954
-pe-	15.00	25.01	-4061	3580	0.2952
-pe-	15.00	25.01	-4057	3583	0.2951
-pe-	15.00	25.01	-4042	3595	0.2950
-pe-	15.00	25.01	-4034	3598	0.2948
-pe-	15.01	25.02	-4035	3597	0.2948

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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: 0.3123 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.2774 W/mK

Percent Difference: 11.85%

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: 80 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.25	20.10	-12130	-2571	0.5829
-te-	9.99	19.98	-7829	1538	0.3666
-te-	10.00	20.00	-6656	2099	0.3417
-te-	10.00	20.00	-5803	2544	0.3255
-te-	10.00	20.00	-5213	2851	0.3143
-te-	10.00	20.00	-4811	3058	0.3066
-te-	10.00	20.00	-4533	3203	0.3013
-te-	10.00	20.01	-4353	3298	0.2979
-te-	10.00	20.01	-4225	3358	0.2952
-te-	10.01	20.01	-4142	3402	0.2937
-te-	10.00	20.01	-4081	3434	0.2925
-te-	10.01	20.01	-4045	3449	0.2917
-pe-	10.00	20.00	-4026	3463	0.2915
-pe-	10.00	20.00	-4008	3472	0.2911
-pe-	10.00	20.00	-3990	3479	0.2907
-pe-	10.00	20.00	-3980	3487	0.2906
-pe-	10.00	20.01	-3974	3487	0.2903
-pe-	10.00	20.00	-3971	3490	0.2904
-pe-	10.00	20.01	-3973	3487	0.2903

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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: 0.3111 W/mK  
Temperature Lower: 20.00 °C  
CalibFactor Lower: 0.025969  
Results Lower: 0.2696 W/mK  
Percent Difference: 14.30%

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: 101 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.35	15.18	-11775	-2500	0.5728
-ne-	4.91	14.86	-7813	1377	0.3644
-te-	4.99	15.00	-6522	2083	0.3388
-te-	4.99	15.00	-5700	2486	0.3217
-te-	5.00	15.00	-5121	2781	0.3103
-te-	5.00	15.00	-4724	2986	0.3025
-te-	5.00	15.00	-4454	3122	0.2971
-te-	5.00	15.00	-4274	3216	0.2936
-te-	5.00	15.00	-4149	3279	0.2911
-te-	5.00	15.00	-4067	3319	0.2894
-te-	5.00	15.00	-4015	3347	0.2884
-te-	5.00	15.00	-3977	3368	0.2877
-pe-	5.00	15.00	-3961	3377	0.2874
-pe-	4.99	15.00	-3940	3386	0.2869
-pe-	5.00	15.00	-3925	3395	0.2867
-pe-	5.00	15.00	-3916	3398	0.2864
-pe-	5.00	15.01	-3910	3400	0.2863
-pe-	5.00	15.01	-3907	3401	0.2862
-pe-	5.00	15.01	-3905	3401	0.2862
-pe-	5.00	15.00	-3902	3404	0.2862

-pe-	5.00	15.01	-3902	3403	0.2861
-pe-	5.00	15.01	-3901	3402	0.2860
-pe-	5.00	15.00	-3899	3404	0.2860
-pe-	5.00	15.01	-3902	3402	0.2860

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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: 0.3088 W/mK  
Temperature Lower: 15.01 °C  
CalibFactor Lower: 0.026003  
Results Lower: 0.2632 W/mK  
Percent Difference: 15.93%

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	0.3123	0.2774	0.2949
15.00	0.3111	0.2696	0.2903
10.00	0.3088	0.2632	0.2860