

Wednesday, December 01, 2021, Time 13:25

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE\_OSa.50.50.0.O#1

Thickness: 28.48mm

Rear Left : 28.45 mm

Rear Right : 28.50 mm

Front Left: 28.45 mm

Front Right: 28.52 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: 67 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	16.06	24.60	-10061	4365	0.6240
-ne-	14.98	24.96	-6338	2849	0.3409
-te-	14.99	25.00	-5348	3227	0.3171
-te-	14.99	25.00	-4921	3481	0.3107
-te-	15.00	25.00	-4649	3644	0.3067
-te-	15.00	25.00	-4483	3747	0.3043
-te-	15.00	25.00	-4377	3810	0.3028
-te-	14.99	25.00	-4313	3849	0.3018
-te-	15.00	25.00	-4265	3874	0.3010
-pe-	14.99	25.00	-4247	3887	0.3006
-pe-	14.99	25.00	-4222	3905	0.3004
-pe-	15.00	25.01	-4203	3914	0.2999
-pe-	15.00	25.01	-4195	3919	0.2998
-pe-	15.00	25.01	-4189	3923	0.2998
-pe-	15.00	25.01	-4188	3923	0.2998
-pe-	15.00	25.01	-4189	3922	0.2998

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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: 0.3101 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.2895 W/mK

Percent Difference: 6.88%

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: 76 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.14	20.06	-12548	-2868	0.5809
-te-	10.00	20.00	-7586	1696	0.3468
-te-	10.00	19.99	-6367	2403	0.3275
-te-	10.00	20.00	-5557	2901	0.3155
-te-	10.00	20.00	-5034	3225	0.3079
-te-	10.00	20.00	-4700	3438	0.3031
-te-	10.00	20.00	-4481	3568	0.2998
-te-	10.00	20.00	-4340	3658	0.2978
-te-	10.00	20.01	-4248	3713	0.2964
-te-	10.00	20.01	-4185	3754	0.2955
-te-	10.00	20.01	-4148	3774	0.2950
-pe-	10.00	20.00	-4135	3784	0.2948
-pe-	10.00	20.00	-4119	3794	0.2946
-pe-	10.00	20.00	-4101	3806	0.2943
-pe-	10.00	20.00	-4093	3809	0.2941
-pe-	10.00	20.00	-4088	3813	0.2941
-pe-	10.00	20.00	-4083	3816	0.2940
-pe-	10.01	20.01	-4084	3815	0.2940

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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: 0.3061 W/mK  
Temperature Lower: 20.00 °C  
CalibFactor Lower: 0.025969  
Results Lower: 0.2821 W/mK  
Percent Difference: 8.16%

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: 97 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.22	15.08	-12352	-2820	0.5805
-te-	4.99	15.00	-7455	1664	0.3440
-te-	4.99	15.00	-6256	2343	0.3236
-te-	5.00	15.00	-5454	2831	0.3113
-te-	5.00	15.00	-4939	3149	0.3036
-te-	5.00	15.01	-4607	3356	0.2987
-te-	5.00	15.01	-4395	3483	0.2953
-te-	5.00	15.01	-4254	3571	0.2932
-te-	5.00	15.00	-4167	3623	0.2919
-te-	5.00	15.01	-4106	3661	0.2910
-te-	5.00	15.01	-4074	3680	0.2905
-pe-	4.99	15.00	-4053	3691	0.2900
-pe-	4.99	15.00	-4034	3706	0.2899
-pe-	5.00	15.00	-4021	3712	0.2896
-pe-	5.00	15.00	-4014	3716	0.2896
-pe-	5.00	15.00	-4008	3721	0.2895
-pe-	5.00	15.00	-4007	3723	0.2895
-pe-	5.00	15.00	-4006	3723	0.2895
-pe-	5.00	15.00	-4006	3723	0.2895
-pe-	5.00	15.00	-4004	3726	0.2895

-pe-	5.00	15.00	-4003	3727	0.2895
-pe-	5.00	15.01	-4002	3728	0.2895
-pe-	5.00	15.00	-4003	3726	0.2895

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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: 0.3032 W/mK  
Temperature Lower: 15.00 °C  
CalibFactor Lower: 0.026003  
Results Lower: 0.2759 W/mK  
Percent Difference: 9.44%

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	0.3101	0.2895	0.2998
15.00	0.3061	0.2821	0.2941
10.00	0.3032	0.2759	0.2895