

Saturday, November 20, 2021, Time 14:32

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE\_OSa.50.50.0.L4#2

Thickness: 31.03mm

Rear Left : 30.91 mm

Rear Right : 31.06 mm

Front Left: 30.99 mm

Front Right: 31.17 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: 84 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	16.30	24.65	-9321	4655	0.6736
-ne-	14.95	25.05	-5879	3057	0.3569
-te-	14.99	24.99	-4902	3334	0.3321
-te-	15.00	25.01	-4599	3571	0.3291
-te-	15.00	25.01	-4373	3720	0.3260
-te-	15.00	25.01	-4219	3825	0.3240
-te-	15.01	25.01	-4110	3896	0.3224
-te-	15.00	25.01	-4046	3941	0.3216
-te-	15.00	25.01	-3995	3974	0.3209
-te-	15.00	25.01	-3962	3997	0.3205
-pe-	15.00	25.01	-3948	4005	0.3202
-pe-	15.00	25.01	-3931	4016	0.3200
-pe-	15.00	25.01	-3917	4026	0.3198
-pe-	15.00	25.01	-3908	4032	0.3197
-pe-	15.00	25.01	-3906	4033	0.3196
-pe-	15.00	25.01	-3902	4034	0.3196
-pe-	15.00	25.01	-3901	4035	0.3195
-pe-	15.00	25.01	-3898	4036	0.3195
-pe-	15.00	25.01	-3899	4036	0.3195
-pe-	15.01	25.01	-3899	4035	0.3195

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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: 0.3145 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3245 W/mK

Percent Difference: 3.14%

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-	10.38	20.23	-12163	-2805	0.6185
-ne-	9.86	19.85	-7728	1275	0.3674
-te-	9.99	19.97	-6299	2323	0.3513
-te-	10.00	20.00	-5544	2810	0.3396
-te-	10.00	20.00	-4999	3175	0.3321
-te-	10.00	20.00	-4629	3424	0.3269
-te-	10.00	20.00	-4376	3597	0.3236
-te-	10.00	20.00	-4202	3716	0.3213
-te-	10.00	20.00	-4087	3792	0.3196
-te-	10.00	20.00	-4010	3847	0.3187
-te-	10.00	20.00	-3956	3881	0.3179
-te-	10.00	20.01	-3918	3908	0.3174
-pe-	10.00	20.00	-3903	3920	0.3172
-pe-	10.00	20.00	-3882	3932	0.3169
-pe-	10.00	20.00	-3865	3945	0.3166
-pe-	10.00	20.00	-3856	3948	0.3164
-pe-	10.00	20.00	-3852	3950	0.3164
-pe-	10.00	20.00	-3848	3953	0.3164
-pe-	10.00	20.01	-3847	3954	0.3163
-pe-	10.00	20.01	-3846	3953	0.3163
-pe-	10.00	20.00	-3843	3957	0.3163
-pe-	10.01	20.01	-3846	3953	0.3163

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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: 0.3139 W/mK  
Temperature Lower: 20.01 °C  
CalibFactor Lower: 0.025969  
Results Lower: 0.3186 W/mK  
Percent Difference: 1.49%

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

Setpoint duration: 80 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.51	15.38	-11823	-2664	0.6030
-ne-	4.85	14.83	-7633	1197	0.3646
-te-	4.99	14.97	-6234	2266	0.3492
-te-	4.99	15.00	-5483	2741	0.3368
-te-	5.00	15.00	-4940	3103	0.3291
-te-	5.00	15.00	-4577	3349	0.3240
-te-	5.00	15.00	-4321	3521	0.3203
-te-	5.00	15.00	-4156	3632	0.3179
-te-	5.00	15.00	-4037	3710	0.3163
-te-	5.00	15.00	-3964	3764	0.3153
-te-	5.00	15.00	-3906	3800	0.3145
-te-	5.00	15.01	-3873	3826	0.3141
-pe-	5.00	15.00	-3853	3835	0.3136
-pe-	4.99	15.00	-3834	3851	0.3135
-pe-	5.00	15.00	-3819	3860	0.3132
-pe-	5.00	15.00	-3813	3863	0.3131
-pe-	5.00	15.00	-3806	3867	0.3130
-pe-	5.00	15.01	-3800	3871	0.3129
-pe-	5.00	15.01	-3801	3870	0.3128

Setpoint No. 3  
 Setpoint Upper: 5.00 °C  
 Setpoint Lower: 15.00 °C  
 Temperature Upper: 5.00 °C  
 CalibFactor Upper: 0.026610  
 Results Upper: 0.3138 W/mK  
 Temperature Lower: 15.01 °C  
 CalibFactor Lower: 0.026003  
 Results Lower: 0.3120 W/mK  
 Percent Difference: 0.55%

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	0.3145	0.3245	0.3195
15.00	0.3139	0.3186	0.3163
10.00	0.3138	0.3120	0.3129