

Tuesday, November 16, 2021, Time 17:19

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE_OSa.50.50.0#2

Thickness: 28.99mm

Rear Left : 28.83 mm

Rear Right : 28.93 mm

Front Left: 29.08 mm

Front Right: 29.13 mm

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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 [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	16.05	24.47	-9327	4978	0.6392
-ne-	14.97	24.99	-6138	3120	0.3482
-te-	15.00	25.00	-5348	3401	0.3293
-te-	15.00	25.01	-5078	3582	0.3259
-te-	15.00	25.01	-4896	3693	0.3232
-te-	15.01	25.01	-4781	3762	0.3215
-te-	15.00	25.01	-4705	3814	0.3205
-te-	15.01	25.01	-4653	3844	0.3197
-te-	15.01	25.02	-4622	3868	0.3195
-pe-	15.00	25.01	-4607	3872	0.3190
-pe-	15.00	25.01	-4591	3886	0.3189
-pe-	15.00	25.01	-4579	3892	0.3187
-pe-	15.00	25.01	-4570	3898	0.3186
-pe-	15.00	25.01	-4571	3897	0.3186
-pe-	15.00	25.01	-4570	3899	0.3187
-pe-	15.00	25.01	-4569	3901	0.3187
-pe-	15.00	25.01	-4566	3904	0.3187
-pe-	15.01	25.01	-4569	3902	0.3187

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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: 0.3443 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.2932 W/mK

Percent Difference: 16.03%

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	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	10.33	20.18	-12649	-2719	0.5936
-ne-	9.87	19.83	-8338	1293	0.3684
-te-	9.99	19.98	-6928	2309	0.3517
-te-	10.00	20.00	-6147	2772	0.3388
-te-	10.00	20.00	-5602	3116	0.3310
-te-	10.00	20.00	-5238	3348	0.3258
-te-	10.00	20.00	-4992	3506	0.3224
-te-	10.00	20.01	-4824	3615	0.3200
-te-	10.00	20.00	-4710	3685	0.3184
-te-	10.00	20.01	-4635	3736	0.3174
-te-	10.01	20.01	-4590	3764	0.3167
-pe-	10.00	20.00	-4564	3777	0.3162
-pe-	10.00	20.00	-4538	3798	0.3160
-pe-	10.00	20.00	-4519	3806	0.3155
-pe-	10.00	20.00	-4505	3814	0.3154
-pe-	10.00	20.01	-4500	3816	0.3152
-pe-	10.00	20.00	-4493	3821	0.3152
-pe-	10.00	20.01	-4491	3822	0.3151
-pe-	10.00	20.00	-4488	3823	0.3150
-pe-	10.01	20.01	-4486	3824	0.3151
-pe-	10.00	20.01	-4486	3825	0.3150
-pe-	10.00	20.01	-4488	3821	0.3150

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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: 0.3422 W/mK
Temperature Lower: 20.01 °C
CalibFactor Lower: 0.025969
Results Lower: 0.2878 W/mK
Percent Difference: 17.26%

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: 89 min

Block Averages for setpoint 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.47	15.34	-12364	-2559	0.5809
-ne-	4.85	14.83	-8263	1215	0.3654
-te-	4.99	14.98	-6831	2250	0.3487
-te-	4.99	15.00	-6072	2699	0.3358
-te-	5.00	15.00	-5533	3038	0.3279
-te-	5.00	15.00	-5168	3274	0.3226
-te-	5.00	15.00	-4923	3428	0.3190
-te-	5.00	15.00	-4759	3531	0.3165
-te-	5.00	15.01	-4651	3601	0.3150
-te-	5.00	15.00	-4578	3646	0.3139
-te-	5.00	15.01	-4526	3682	0.3132
-te-	5.00	15.01	-4500	3696	0.3127
-pe-	4.99	15.00	-4487	3702	0.3124
-pe-	4.99	15.00	-4466	3719	0.3123
-pe-	5.00	15.00	-4452	3728	0.3122
-pe-	5.00	15.01	-4443	3734	0.3119
-pe-	5.00	15.01	-4437	3738	0.3119
-pe-	5.00	15.01	-4436	3735	0.3117
-pe-	5.00	15.00	-4436	3735	0.3118
-pe-	5.00	15.01	-4432	3738	0.3117
-pe-	5.00	15.01	-4434	3735	0.3116

Setpoint No. 3
Setpoint Upper: 5.00 °C
Setpoint Lower: 15.00 °C
Temperature Upper: 5.00 °C
CalibFactor Upper: 0.026610
Results Upper: 0.3419 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026002
Results Lower: 0.2815 W/mK
Percent Difference: 19.38%

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	0.3443	0.2932	0.3187
15.01	0.3422	0.2878	0.3150
10.00	0.3419	0.2815	0.3117