

Tuesday, December 13, 2022, Time 17:26

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: M3-1-20221213

Thickness: 28.20mm

Rear Left : 28.32 mm                      Rear Right : 28.47 mm

Front Left: 27.94 mm                      Front Right: 28.07 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: 55 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.46	24.07	-8434	7615	0.6818
-ne-	15.01	24.99	-6392	4207	0.3892
-te-	15.00	25.01	-5797	4334	0.3708
-te-	15.00	25.01	-5552	4436	0.3655
-te-	15.01	25.02	-5431	4494	0.3632
-te-	15.01	25.01	-5374	4511	0.3618
-te-	15.00	25.01	-5353	4523	0.3614
-pe-	15.00	25.01	-5347	4527	0.3614
-pe-	15.00	25.01	-5335	4537	0.3613
-pe-	15.00	25.01	-5326	4542	0.3612
-pe-	15.00	25.01	-5325	4544	0.3612
-pe-	15.01	25.01	-5325	4545	0.3612
-pe-	15.01	25.02	-5326	4544	0.3612

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Setpoint No. 1

Setpoint Upper: 15.00 °C

Setpoint Lower: 25.00 °C

Temperature Upper: 15.01 °C

CalibFactor Upper: 0.026016

Results Upper: 0.3904 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3321 W/mK

Percent Difference: 16.14%

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: 72 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.11	20.05	-14814	-1908	0.6230
-te-	9.99	20.00	-9751	2353	0.4475

-te-	10.00	20.00	-7880	3184	0.4089
-te-	10.00	20.00	-6748	3699	0.3858
-te-	10.00	20.00	-6085	4007	0.3724
-te-	10.00	20.00	-5703	4181	0.3646
-te-	10.00	20.00	-5483	4281	0.3601
-te-	10.00	20.00	-5360	4342	0.3578
-te-	10.00	20.01	-5291	4372	0.3563
-te-	10.00	20.01	-5249	4391	0.3555
-pe-	10.00	20.00	-5229	4402	0.3550
-pe-	10.00	20.00	-5215	4410	0.3549
-pe-	10.00	20.01	-5201	4412	0.3542
-pe-	10.00	20.01	-5196	4413	0.3542
-pe-	10.00	20.01	-5191	4413	0.3541
-pe-	10.00	20.00	-5188	4415	0.3540
-pe-	10.00	20.01	-5191	4413	0.3541

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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: 0.3850 W/mK  
Temperature Lower: 20.01 °C  
CalibFactor Lower: 0.025969  
Results Lower: 0.3231 W/mK  
Percent Difference: 17.47%

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 [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.20	15.04	-14495	-1921	0.6238
-te-	4.98	14.99	-9628	2296	0.4450
-te-	4.99	15.00	-7762	3105	0.4048
-te-	4.99	15.00	-6633	3614	0.3811
-te-	5.00	15.00	-5979	3911	0.3675
-te-	5.00	15.00	-5604	4083	0.3597
-te-	5.00	15.00	-5385	4182	0.3552
-te-	5.00	15.01	-5267	4236	0.3527
-te-	5.00	15.00	-5190	4272	0.3512
-te-	5.00	15.00	-5156	4286	0.3505
-pe-	5.00	15.00	-5146	4292	0.3502
-pe-	4.99	15.00	-5127	4302	0.3499
-pe-	5.00	15.00	-5120	4307	0.3498
-pe-	5.00	15.00	-5110	4311	0.3495
-pe-	5.00	15.01	-5107	4309	0.3494
-pe-	5.00	15.01	-5104	4308	0.3493
-pe-	5.00	15.00	-5098	4311	0.3491
-pe-	5.00	15.01	-5095	4311	0.3491
-pe-	5.00	15.01	-5094	4312	0.3489
-pe-	5.00	15.01	-5092	4309	0.3488
-pe-	5.00	15.01	-5095	4306	0.3489

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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: 0.3820 W/mK  
Temperature Lower: 15.01 °C  
CalibFactor Lower: 0.026002

Results Lower: 0.3158 W/mK  
Percent Difference: 18.98%

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	0.3904	0.3321	0.3612
15.00	0.3850	0.3231	0.3541
10.01	0.3820	0.3158	0.3489