

Thursday, December 16, 2021, Time 12:33

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 50.50.0.H #1

Thickness: 29.27mm

Rear Left : 29.39 mm

Rear Right : 29.41 mm

Front Left: 29.13 mm

Front Right: 29.13 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: 42 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.98	24.47	-8583	6743	0.6850
-ne-	14.88	24.90	-6114	5456	0.4390
-te-	14.98	24.99	-5617	5700	0.4299
-te-	15.00	25.00	-5626	5705	0.4305
-pe-	15.00	25.01	-5621	5717	0.4307
-pe-	15.00	25.01	-5620	5734	0.4313
-pe-	15.00	25.01	-5617	5744	0.4316
-pe-	15.00	25.01	-5617	5751	0.4318
-pe-	15.01	25.01	-5617	5755	0.4319
-pe-	15.01	25.02	-5618	5751	0.4318

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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: 0.4274 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.4363 W/mK

Percent Difference: 2.06%

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 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.10	20.06	-13118	-4011	0.6600
-te-	9.99	20.00	-8713	1606	0.3963
-te-	10.00	20.00	-7558	3027	0.4062
-te-	10.00	20.00	-6816	3943	0.4124
-te-	10.00	20.00	-6346	4524	0.4162

	10.01	20.01	-6037	4911	0.4190
-te-	10.01	20.01	-5844	5148	0.4206
-te-	10.01	20.01	-5716	5299	0.4214
-te-	10.00	20.01	-5638	5394	0.4220
-te-	10.00	20.01	-5585	5463	0.4226
-te-	10.00	20.00	-5550	5504	0.4228
-pe-	10.00	20.00	-5533	5524	0.4229
-pe-	10.00	20.00	-5521	5540	0.4231
-pe-	10.00	20.00	-5508	5558	0.4234
-pe-	10.00	20.00	-5500	5571	0.4235
-pe-	10.00	20.00	-5495	5579	0.4235
-pe-	10.00	20.01	-5490	5584	0.4235
-pe-	10.00	20.01	-5490	5582	0.4234
-pe-	10.01	20.01	-5490	5583	0.4235
-pe-	10.00	20.01	-5488	5582	0.4233
-pe-	10.00	20.01	-5485	5581	0.4232
-pe-	10.00	20.01	-5481	5582	0.4230
-pe-	10.00	20.01	-5483	5578	0.4230

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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: 0.4221 W/mK  
Temperature Lower: 20.01 °C  
CalibFactor Lower: 0.025969  
Results Lower: 0.4240 W/mK  
Percent Difference: 0.44%

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

Setpoint duration: 72 min

Block Averages for setpoint 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.15	15.04	-12938	-3998	0.6628
-te-	4.99	15.00	-8556	1550	0.3918
-te-	5.00	15.00	-7425	2941	0.4010
-te-	5.00	15.00	-6701	3834	0.4068
-te-	5.00	15.00	-6244	4406	0.4107
-te-	5.00	15.00	-5946	4770	0.4129
-te-	5.00	15.00	-5760	5009	0.4147
-te-	5.00	15.00	-5632	5170	0.4159
-te-	5.00	15.01	-5559	5260	0.4164
-te-	5.00	15.01	-5501	5332	0.4169
-te-	5.00	15.01	-5461	5377	0.4170
-pe-	5.00	15.00	-5448	5391	0.4171
-pe-	5.00	15.00	-5430	5409	0.4170
-pe-	5.00	15.00	-5416	5423	0.4171
-pe-	5.00	15.00	-5407	5435	0.4171
-pe-	5.00	15.00	-5407	5433	0.4171
-pe-	5.00	15.00	-5408	5434	0.4172

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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: 0.4209 W/mK  
Temperature Lower: 15.00 °C  
CalibFactor Lower: 0.026003  
Results Lower: 0.4134 W/mK

Percent Difference: 1.81%

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	0.4274	0.4363	0.4318
15.01	0.4221	0.4240	0.4231
10.00	0.4209	0.4134	0.4171