

Friday, December 10, 2021, Time 12:57

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 50.50.0.W #3

Thickness: 31.16mm

Rear Left : 31.17 mm Rear Right : 31.22 mm

Front Left: 31.11 mm Front Right: 31.14 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: 55 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.29	24.10	-5690	8794	0.6649
-ne-	15.01	25.00	-4394	4904	0.3767
-te-	15.01	25.02	-4323	4713	0.3653
-te-	15.01	25.01	-4360	4676	0.3653
-pe-	15.01	25.02	-4379	4660	0.3655
-pe-	15.01	25.02	-4402	4637	0.3655
-pe-	15.01	25.02	-4420	4621	0.3655
-pe-	15.01	25.02	-4434	4608	0.3656
-pe-	15.01	25.02	-4447	4596	0.3656
-pe-	15.00	25.01	-4457	4593	0.3660
-pe-	15.00	25.01	-4458	4593	0.3660
-pe-	15.00	25.01	-4461	4596	0.3663
-pe-	15.00	25.01	-4460	4598	0.3663

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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: 0.3613 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3711 W/mK

Percent Difference: 2.68%

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-	10.10	20.05	-12668	-3205	0.6522
-te-	10.00	20.00	-8086	1560	0.3943

-te-	10.00	20.00	-6909	2472	0.3832
-te-	10.00	20.00	-6095	3106	0.3755
-te-	10.00	20.00	-5547	3542	0.3707
-te-	10.00	20.00	-5174	3840	0.3674
-te-	10.00	20.00	-4916	4046	0.3652
-te-	10.00	20.01	-4740	4182	0.3634
-te-	10.00	20.00	-4623	4272	0.3623
-te-	10.00	20.01	-4540	4338	0.3615
-te-	10.00	20.01	-4490	4379	0.3611
-te-	10.00	20.00	-4454	4406	0.3608
-pe-	10.00	20.00	-4436	4420	0.3607
-pe-	10.00	20.00	-4414	4441	0.3606
-pe-	10.00	20.00	-4401	4454	0.3605
-pe-	10.00	20.00	-4397	4454	0.3604
-pe-	10.00	20.00	-4386	4465	0.3604
-pe-	10.00	20.00	-4375	4476	0.3604
-pe-	10.00	20.01	-4371	4478	0.3603
-pe-	10.01	20.01	-4371	4476	0.3602
-pe-	10.00	20.01	-4369	4477	0.3601
-pe-	10.01	20.01	-4370	4476	0.3601

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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: 0.3582 W/mK
Temperature Lower: 20.01 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3621 W/mK
Percent Difference: 1.09%

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: 101 min

Block Averages for setpoint 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.16	15.04	-12492	-3177	0.6544
-te-	5.00	15.00	-7949	1526	0.3912
-te-	5.00	15.00	-6794	2400	0.3786
-te-	5.00	15.01	-5994	3020	0.3707
-te-	5.00	15.00	-5459	3451	0.3659
-te-	5.00	15.00	-5096	3735	0.3624
-te-	5.00	15.00	-4842	3936	0.3600
-te-	5.00	15.00	-4674	4075	0.3587
-te-	5.00	15.00	-4555	4164	0.3573
-te-	5.00	15.01	-4476	4231	0.3568
-te-	5.00	15.00	-4420	4270	0.3561
-te-	5.00	15.00	-4389	4295	0.3558
-pe-	5.00	15.00	-4373	4312	0.3558
-pe-	4.99	15.00	-4350	4332	0.3556
-pe-	5.00	15.00	-4335	4344	0.3555
-pe-	5.00	15.00	-4328	4350	0.3554
-pe-	5.00	15.01	-4322	4351	0.3552
-pe-	5.00	15.01	-4319	4355	0.3553
-pe-	5.00	15.01	-4317	4355	0.3552
-pe-	5.00	15.01	-4312	4360	0.3552
-pe-	5.00	15.01	-4310	4359	0.3550
-pe-	5.00	15.01	-4300	4364	0.3548
-pe-	5.00	15.01	-4296	4366	0.3547
-pe-	5.00	15.01	-4296	4366	0.3548

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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: 0.3561 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026002
Results Lower: 0.3535 W/mK
Percent Difference: 0.74%

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	0.3613	0.3711	0.3662
15.01	0.3582	0.3621	0.3602
10.00	0.3561	0.3535	0.3548