

Thursday, November 11, 2021, Time 10:19

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE_OSa.29.14.57#3 - 20211111

Thickness: 29.96mm

Rear Left : 29.84 mm

Rear Right : 29.90 mm

Front Left: 30.02 mm

Front Right: 30.07 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-	16.47	24.64	-10100	3954	0.6677
-ne-	15.01	24.93	-7597	3368	0.4303
-te-	15.00	25.01	-6723	3869	0.4120
-te-	15.00	25.01	-6292	4143	0.4058
-te-	15.01	25.02	-6009	4334	0.4022
-te-	15.01	25.02	-5824	4458	0.3997
-te-	15.01	25.02	-5699	4541	0.3981
-te-	15.01	25.02	-5627	4589	0.3971
-te-	15.00	25.01	-5588	4616	0.3967
-pe-	14.99	25.00	-5576	4630	0.3968
-pe-	14.99	25.00	-5560	4646	0.3967
-pe-	14.98	24.99	-5541	4650	0.3962
-pe-	14.99	24.99	-5523	4662	0.3962
-pe-	14.99	25.00	-5511	4674	0.3961
-pe-	15.00	25.00	-5503	4683	0.3962
-pe-	15.00	25.01	-5501	4685	0.3961
-pe-	15.00	25.01	-5499	4687	0.3961
-pe-	15.01	25.01	-5504	4685	0.3962

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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: 0.4285 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3638 W/mK

Percent Difference: 16.32%

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: 106 min

Block Averages for setpoint 2 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	10.24	20.11	-13493	-2702	0.6453
-te-	9.99	19.98	-9585	1692	0.4441
-te-	10.00	20.00	-8292	2544	0.4257
-te-	10.00	20.00	-7378	3180	0.4144
-te-	10.00	20.00	-6752	3610	0.4065
-te-	10.00	20.00	-6318	3912	0.4011
-te-	10.00	20.00	-6023	4116	0.3974
-te-	10.00	20.00	-5820	4256	0.3950
-te-	10.00	20.00	-5687	4348	0.3932
-te-	10.00	20.00	-5594	4411	0.3920
-te-	10.00	20.00	-5531	4455	0.3912
-te-	10.00	20.00	-5486	4483	0.3906
-pe-	10.00	20.00	-5468	4497	0.3904
-pe-	10.00	20.00	-5444	4516	0.3902
-pe-	10.00	20.00	-5425	4526	0.3897
-pe-	10.00	20.00	-5414	4534	0.3897
-pe-	10.00	20.01	-5408	4536	0.3895
-pe-	10.00	20.00	-5401	4540	0.3894
-pe-	10.00	20.01	-5399	4541	0.3893
-pe-	10.00	20.00	-5397	4542	0.3893
-pe-	10.00	20.00	-5398	4542	0.3895
-pe-	10.00	20.00	-5400	4542	0.3895
-pe-	10.00	20.00	-5399	4546	0.3896
-pe-	10.00	20.00	-5399	4547	0.3896
-pe-	10.00	20.00	-5400	4546	0.3896

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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: 0.4256 W/mK
Temperature Lower: 20.00 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3537 W/mK
Percent Difference: 18.46%

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 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.33	15.14	-13063	-2657	0.6358
-ne-	4.92	14.88	-9506	1514	0.4398
-te-	4.99	15.00	-8123	2507	0.4212
-te-	5.00	15.00	-7235	3100	0.4089
-te-	5.00	15.00	-6621	3525	0.4010
-te-	5.00	15.00	-6202	3815	0.3956
-te-	5.00	15.00	-5914	4013	0.3918
-te-	5.00	15.00	-5721	4145	0.3893
-te-	5.00	15.00	-5588	4238	0.3876
-te-	5.00	15.00	-5499	4298	0.3864
-te-	5.00	15.01	-5438	4339	0.3855
-te-	5.00	15.01	-5396	4369	0.3851
-pe-	5.00	15.00	-5376	4381	0.3847
-pe-	5.00	15.00	-5357	4395	0.3845
-pe-	4.99	15.00	-5339	4407	0.3842
-pe-	5.00	15.00	-5326	4415	0.3840
-pe-	5.00	15.01	-5316	4420	0.3838
-pe-	5.00	15.00	-5309	4424	0.3837
-pe-	5.00	15.01	-5310	4421	0.3836

-pe-	5.00	15.00	-5303	4426	0.3836
-pe-	5.00	15.00	-5301	4425	0.3834
-pe-	5.00	15.00	-5300	4425	0.3834
-pe-	5.00	15.01	-5303	4423	0.3834

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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: 0.4224 W/mK
Temperature Lower: 15.00 °C
CalibFactor Lower: 0.026003
Results Lower: 0.3444 W/mK
Percent Difference: 20.33%

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	0.4285	0.3638	0.3961
15.00	0.4256	0.3537	0.3896
10.00	0.4224	0.3444	0.3834