

Tuesday, December 19, 2023, Time 15:25

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 2023_12_19_W3 iz 2023_smp 1

Thickness: 28.71mm

Rear Left : 28.80 mm

Rear Right : 28.70 mm

Front Left: 28.73 mm

Front Right: 28.63 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: 72 min

Block Averages for setpoint 1 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	15.55	24.21	-9866	5923	0.6799
-ne-	15.00	24.98	-7258	3932	0.4183
-te-	15.00	25.01	-6572	4424	0.4100
-te-	15.00	25.01	-6218	4772	0.4096
-te-	15.01	25.01	-5996	4996	0.4097
-te-	15.01	25.01	-5851	5145	0.4098
-te-	15.00	25.01	-5759	5240	0.4098
-te-	15.01	25.01	-5694	5305	0.4098
-te-	15.01	25.01	-5657	5343	0.4099
-pe-	15.00	25.01	-5642	5357	0.4098
-pe-	15.00	25.01	-5620	5376	0.4097
-pe-	15.00	25.01	-5604	5396	0.4099
-pe-	15.00	25.01	-5595	5403	0.4098
-pe-	15.00	25.01	-5589	5409	0.4098
-pe-	15.00	25.01	-5587	5410	0.4098
-pe-	15.00	25.01	-5586	5412	0.4098
-pe-	15.01	25.01	-5586	5411	0.4098

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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: 0.4170 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.4026 W/mK

Percent Difference: 3.50%

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: 84 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.13	20.06	-13284	-3306	0.6293
-te-	9.99	20.00	-9039	1603	0.4010
-te-	10.00	19.99	-7834	2812	0.4010
-te-	10.00	20.00	-7021	3646	0.4013
-te-	10.00	20.00	-6478	4210	0.4017
-te-	10.00	20.00	-6125	4580	0.4021
-te-	10.00	20.01	-5899	4816	0.4024
-te-	10.00	20.01	-5743	4979	0.4025
-te-	10.01	20.01	-5645	5080	0.4026
-te-	10.01	20.01	-5579	5146	0.4025
-te-	10.01	20.01	-5535	5189	0.4025
-pe-	10.00	20.00	-5516	5206	0.4024
-pe-	10.00	20.00	-5498	5226	0.4026
-pe-	10.00	20.00	-5482	5246	0.4028
-pe-	10.00	20.00	-5469	5261	0.4027
-pe-	10.00	20.00	-5461	5274	0.4029
-pe-	10.00	20.00	-5462	5280	0.4032
-pe-	10.00	20.00	-5461	5284	0.4033
-pe-	10.00	20.00	-5460	5286	0.4034
-pe-	10.01	20.01	-5461	5284	0.4033

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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:
0.4126
W/mK

Temperature Lower:
20.00
°C

CalibFactor Lower:
0.025969

Results Lower:
0.3941
W/mK

Percent Difference:
4.59%

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: 110 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.21	15.06	-13093	-3275	0.6316
-te-	4.99	15.00	-8858	1563	0.3966
-te-	5.00	15.00	-7671	2736	0.3951
-te-	5.00	15.00	-6870	3551	0.3948
-te-	5.00	15.00	-6341	4097	0.3950
-te-	5.00	15.00	-5997	4452	0.3951
-te-	5.00	15.01	-5769	4687	0.3952
-te-	5.00	15.01	-5621	4838	0.3952
-te-	5.00	15.01	-5524	4938	0.3952
-te-	5.00	15.01	-5452	5009	0.3951
-te-	5.00	15.01	-5413	5047	0.3951
-pe-	5.00	15.00	-5392	5065	0.3949
-pe-	5.00	15.00	-5366	5088	0.3948
-pe-	5.00	15.00	-5348	5103	0.3946
-pe-	5.00	15.01	-5337	5112	0.3945
-pe-	5.00	15.00	-5329	5117	0.3944
-pe-	5.00	15.00	-5328	5117	0.3944
-pe-	5.00	15.00	-5328	5120	0.3945
-pe-	5.00	15.00	-5328	5123	0.3947
-pe-	5.00	15.00	-5332	5125	0.3949
-pe-	5.00	15.00	-5333	5131	0.3951
-pe-	5.00	15.00	-5334	5133	0.3953
-pe-	5.00	15.00	-5338	5134	0.3955
-pe-	5.00	15.00	-5340	5135	0.3956
-pe-	5.00	15.00	-5337	5139	0.3956

-pe- 5.00 15.01 -5338 5138 0.3955

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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: 0.4077 W/mK
Temperature Lower: 15.00 °C
CalibFactor Lower: 0.026003
Results Lower: 0.3834 W/mK
Percent Difference: 6.14%

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

Results Table -- SI Units

Mean Temp	Upper Cond	Lower Cond	Average Cond
20.01	0.4170	0.4026	0.4098
15.00	0.4126	0.3941	0.4033
10.00	0.4077	0.3834	0.3956