

Friday, December 15, 2023, Time 08:20

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 2023_12_14_M3_2_10_11

Thickness: 27.50mm

Rear Left : 27.53 mm

Rear Right : 27.41 mm

Front Left: 27.58 mm

Front Right: 27.46 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: 97 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.66	24.33	-11005	5607	0.6835
-ne-	14.99	24.97	-7572	3791	0.4068
-te-	15.00	25.01	-6693	4317	0.3930
-te-	15.00	25.01	-6298	4612	0.3894
-te-	15.00	25.01	-6075	4791	0.3878
-te-	15.00	25.01	-5934	4900	0.3866
-te-	15.00	25.01	-5851	4972	0.3862
-te-	15.00	25.01	-5802	5009	0.3859
-pe-	15.00	25.01	-5778	5032	0.3857
-pe-	15.00	25.01	-5752	5052	0.3855
-pe-	15.00	25.01	-5730	5071	0.3854
-pe-	15.00	25.01	-5719	5078	0.3852
-pe-	15.00	25.01	-5711	5086	0.3853
-pe-	15.00	25.01	-5706	5088	0.3850
-pe-	15.00	25.01	-5705	5085	0.3849
-pe-	15.01	25.01	-5702	5088	0.3850
-pe-	15.01	25.02	-5702	5088	0.3849
-pe-	15.01	25.02	-5700	5085	0.3848
-pe-	15.01	25.02	-5700	5086	0.3848
-pe-	15.00	25.01	-5700	5082	0.3848
-pe-	15.00	25.01	-5697	5085	0.3847
-pe-	15.01	25.01	-5697	5083	0.3847
-pe-	15.00	25.01	-5699	5083	0.3847

Friday, December 15, 2023, Time 09:58

Setpoint No. 1
Setpoint Upper: 15.00 °C
Setpoint Lower: 25.00 °C
Temperature Upper: 15.00 °C
CalibFactor Upper: 0.026016
Results Upper: 0.4072 W/mK
Temperature Lower: 25.01 °C
CalibFactor Lower: 0.025934
Results Lower: 0.3621 W/mK
Percent Difference: 11.71%

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-	10.12	20.06	-13921	-2782	0.6066
-te-	10.00	20.00	-9085	2232	0.4081
-te-	10.00	20.00	-7756	3240	0.3964
-te-	10.00	20.00	-6926	3881	0.3892
-te-	10.00	20.00	-6417	4284	0.3850
-te-	10.00	20.01	-6102	4527	0.3823
-te-	10.00	20.01	-5909	4679	0.3807
-te-	10.00	20.00	-5781	4777	0.3797
-te-	10.00	20.00	-5704	4836	0.3790
-te-	10.00	20.01	-5658	4875	0.3787
-pe-	10.00	20.00	-5633	4894	0.3784
-pe-	10.00	20.00	-5607	4915	0.3782
-pe-	10.00	20.00	-5586	4929	0.3779
-pe-	10.00	20.01	-5575	4936	0.3778
-pe-	10.00	20.00	-5568	4941	0.3777
-pe-	10.00	20.01	-5566	4939	0.3776
-pe-	10.01	20.01	-5570	4937	0.3776

Friday, December 15, 2023, Time 11:10

Setpoint No. 2
Setpoint Upper: 10.00 °C
Setpoint Lower: 20.00 °C
Temperature Upper: 10.00 °C
CalibFactor Upper: 0.026312
Results Upper: 0.4027 W/mK
Temperature Lower: 20.01 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3526 W/mK
Percent Difference: 13.28%

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 [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.22	15.07	-13727	-2760	0.6098
-te-	4.99	15.00	-8928	2167	0.4039
-te-	5.00	15.00	-7611	3151	0.3909
-te-	5.00	15.00	-6795	3778	0.3834
-te-	5.00	15.00	-6292	4164	0.3788
-te-	5.00	15.01	-5982	4408	0.3762
-te-	5.00	15.00	-5795	4554	0.3746
-te-	5.00	15.00	-5667	4656	0.3736
-te-	5.00	15.00	-5594	4712	0.3729
-te-	5.00	15.01	-5545	4751	0.3725
-pe-	5.00	15.00	-5524	4768	0.3723
-pe-	4.99	15.00	-5499	4788	0.3721
-pe-	5.00	15.00	-5480	4802	0.3719
-pe-	5.00	15.00	-5469	4811	0.3719
-pe-	5.00	15.01	-5466	4811	0.3717
-pe-	5.00	15.01	-5460	4814	0.3716
-pe-	5.00	15.01	-5461	4814	0.3717

Friday, December 15, 2023, Time 12:22

Setpoint No. 3
Setpoint Upper: 5.00 °C

Setpoint Lower: 15.00 °C
Temperature Upper: 5.00 °C
CalibFactor Upper: 0.026610
Results Upper: 0.3994 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026002
Results Lower: 0.3439 W/mK
Percent Difference: 14.94%

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	0.4072	0.3621	0.3847
15.00	0.4027	0.3526	0.3777
10.00	0.3994	0.3439	0.3717