

Thursday, December 07, 2023, Time 09:38

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 2023-W3-1

Thickness: 27.58mm

Rear Left : 27.36 mm

Rear Right : 27.69 mm

Front Left: 27.48 mm

Front Right: 27.81 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: 55 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.59	24.18	-13947	9746	0.9879
-ne-	15.00	24.98	-10712	8547	0.6918
-te-	15.01	25.01	-10075	8891	0.6789
-te-	15.01	25.02	-9919	9023	0.6780
-te-	15.01	25.02	-9863	9053	0.6771
-te-	15.01	25.02	-9845	9065	0.6768
-pe-	15.00	25.01	-9840	9068	0.6769
-pe-	15.00	25.01	-9836	9069	0.6767
-pe-	15.01	25.01	-9836	9075	0.6770
-pe-	15.00	25.01	-9834	9079	0.6771
-pe-	15.01	25.01	-9835	9079	0.6772
-pe-	15.00	25.01	-9834	9084	0.6773
-pe-	15.01	25.02	-9842	9077	0.6773

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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: 0.7054 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.6491 W/mK

Percent Difference: 8.32%

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: 63 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.17	20.07	-19034	-2373	0.7829
-te-	9.99	19.99	-14064	5019	0.6900

-te-	10.00	20.00	-11620	7158	0.6783
-te-	10.00	20.00	-10532	8112	0.6727
-te-	10.01	20.01	-10049	8539	0.6705
-te-	10.00	20.01	-9832	8720	0.6690
-te-	10.01	20.01	-9731	8812	0.6686
-te-	10.00	20.00	-9680	8848	0.6682
-te-	10.00	20.01	-9660	8863	0.6679
-pe-	10.00	20.00	-9649	8871	0.6678
-pe-	10.00	20.00	-9636	8879	0.6675
-pe-	10.00	20.01	-9624	8884	0.6672
-pe-	10.00	20.01	-9615	8887	0.6669
-pe-	10.00	20.01	-9613	8882	0.6667
-pe-	10.00	20.01	-9614	8875	0.6665

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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: 0.6975 W/mK  
Temperature Lower: 20.01 °C  
CalibFactor Lower: 0.025969  
Results Lower: 0.6359 W/mK  
Percent Difference: 9.23%

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: 59 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.27	15.08	-18920	-2355	0.7936
-ne-	4.90	14.90	-14035	4718	0.6845
-te-	4.99	15.00	-11351	7095	0.6707
-te-	5.00	15.00	-10333	7997	0.6655
-te-	5.00	15.01	-9875	8403	0.6634
-te-	5.00	15.00	-9683	8574	0.6625
-te-	5.00	15.00	-9594	8662	0.6623
-te-	5.00	15.00	-9553	8693	0.6621
-pe-	4.99	15.00	-9537	8715	0.6623
-pe-	5.00	15.00	-9524	8733	0.6624
-pe-	5.00	15.00	-9511	8741	0.6622
-pe-	5.00	15.01	-9509	8741	0.6621
-pe-	5.00	15.00	-9506	8743	0.6620
-pe-	5.00	15.00	-9507	8741	0.6621

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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: 0.6975 W/mK  
Temperature Lower: 15.00 °C  
CalibFactor Lower: 0.026003  
Results Lower: 0.6267 W/mK  
Percent Difference: 10.70%

Thermal Equilibrium Criteria:  
Temperature Equilibrium: 0.20  
Between Block HFM Equil.: 49  
HFM Percent Change: 2.00  
Min Number of Blocks: 4

## Results Table -- SI Units

Mean Temp	Upper Cond	Lower Cond	Average Cond
20.01	0.7054	0.6491	0.6773
15.01	0.6975	0.6359	0.6667
10.00	0.6975	0.6267	0.6621