

Thursday, June 10, 2021, Time 20:01

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: A3-2F-20210610

Thickness: 37.16mm

Rear Left : 37.13 mm

Rear Right : 37.16 mm

Front Left: 37.16 mm

Front Right: 37.19 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: 93 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]	SampleU [°C]	SampleL [°C]
-ne-	16.12	24.60	-12773	3984	1.905	19.65	23.87
-ne-	15.00	24.96	-7975	2445	0.7657	17.72	24.27
-te-	15.00	25.01	-6599	3087	0.6821	17.29	24.12
-te-	15.00	25.01	-5983	3623	0.6712	17.08	23.97
-te-	15.00	25.01	-5604	3991	0.6683	16.95	23.86
-te-	15.01	25.02	-5362	4234	0.6671	16.87	23.79
-te-	15.01	25.02	-5213	4382	0.6663	16.81	23.75
-te-	15.01	25.01	-5109	4483	0.6657	16.78	23.72
-te-	15.01	25.02	-5053	4544	0.6657	16.76	23.70
-te-	15.00	25.01	-5008	4581	0.6654	16.74	23.69
-pe-	15.00	25.01	-4989	4600	0.6649	16.73	23.68
-pe-	15.00	25.01	-4966	4622	0.6646	16.73	23.68
-pe-	15.00	25.01	-4954	4634	0.6645	16.72	23.67
-pe-	15.00	25.01	-4944	4644	0.6644	16.72	23.67
-pe-	15.00	25.01	-4935	4651	0.6643	16.72	23.67
-pe-	15.00	25.01	-4932	4655	0.6643	16.72	23.67
-pe-	15.01	25.02	-4930	4653	0.6640	16.72	23.67
-pe-	15.01	25.02	-4929	4654	0.6640	16.72	23.67
-pe-	15.01	25.02	-4926	4657	0.6641	16.72	23.67
-pe-	15.01	25.02	-4926	4654	0.6640	16.72	23.67
-pe-	15.00	25.01	-4921	4658	0.6639	16.72	23.67
-pe-	15.01	25.02	-4922	4658	0.6640	16.72	23.67

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Setpoint No. 1

Setpoint Upper: 15.00 °C

Setpoint Lower: 25.00 °C

Temperature Upper: 16.72 °C

CalibFactor Upper: 0.025915

Results Upper: 0.6821 W/mK

Temperature Lower: 23.67 °C

CalibFactor Lower: 0.025943

Results Lower: 0.6459 W/mK

Percent Difference: 5.45%

Thermal Equilibrium Criteria:

Temperature Equilibrium: 0.20

Between Block HFM Equil.: 49

HFM Percent Change: 2.00

Min Number of Blocks: 4

Setpoint duration: 89 min

## Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]	SampleU [°C]	SampleL [°C]
-ne-	10.25	20.09	-13363	-4957	1.353	14.31	20.85
-te-	10.00	20.00	-8674	785	0.6844	13.11	19.82
-te-	10.00	20.00	-7344	2051	0.6717	12.63	19.42
-te-	10.00	20.00	-6457	2943	0.6671	12.32	19.16
-te-	10.00	20.00	-5890	3524	0.6647	12.12	18.99
-te-	10.00	20.00	-5521	3900	0.6633	11.99	18.88
-te-	10.00	20.00	-5287	4137	0.6623	11.91	18.81
-te-	10.00	20.01	-5138	4286	0.6614	11.85	18.76
-te-	10.00	20.01	-5050	4386	0.6616	11.82	18.73
-te-	10.00	20.01	-4988	4445	0.6611	11.80	18.71
-te-	10.00	20.00	-4945	4485	0.6608	11.78	18.70
-pe-	10.00	20.00	-4931	4498	0.6607	11.77	18.69
-pe-	10.00	20.00	-4912	4519	0.6608	11.77	18.69
-pe-	10.00	20.00	-4898	4532	0.6606	11.76	18.68
-pe-	10.00	20.00	-4885	4546	0.6603	11.76	18.68
-pe-	10.00	20.00	-4880	4550	0.6607	11.76	18.68
-pe-	10.00	20.01	-4879	4551	0.6607	11.76	18.68
-pe-	10.00	20.00	-4876	4553	0.6606	11.76	18.68
-pe-	10.00	20.01	-4875	4554	0.6606	11.76	18.68
-pe-	10.00	20.00	-4872	4556	0.6607	11.76	18.68
-pe-	10.00	20.01	-4872	4555	0.6606	11.76	18.68

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Setpoint No. 2

Setpoint Upper: 10.00 °C

Setpoint Lower: 20.00 °C

Temperature Upper: 11.76 °C

CalibFactor Upper: 0.026208

Results Upper: 0.6858 W/mK

Temperature Lower: 18.68 °C

CalibFactor Lower: 0.025978

Results Lower: 0.6355 W/mK

Percent Difference: 7.62%

## 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 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]	SampleU [°C]	SampleL [°C]
-ne-	5.35	15.17	-13066	-4808	1.353	9.48	15.92
-ne-	4.94	14.92	-8598	625	0.6848	8.18	14.79
-te-	5.00	15.00	-7210	2013	0.6720	7.72	14.44
-te-	5.00	15.00	-6334	2883	0.6652	7.39	14.17
-te-	5.00	15.00	-5773	3461	0.6625	7.19	14.00
-te-	5.00	15.00	-5415	3831	0.6608	7.05	13.89
-te-	5.00	15.01	-5183	4065	0.6595	6.97	13.82
-te-	5.00	15.01	-5042	4216	0.6593	6.92	13.77
-te-	5.00	15.01	-4946	4311	0.6587	6.88	13.74
-te-	5.00	15.01	-4886	4369	0.6582	6.86	13.72
-te-	5.00	15.01	-4843	4413	0.6583	6.85	13.71
-pe-	5.00	15.00	-4829	4426	0.6582	6.84	13.70
-pe-	5.00	15.00	-4810	4442	0.6580	6.84	13.70
-pe-	5.00	15.00	-4797	4454	0.6580	6.83	13.69
-pe-	5.00	15.00	-4786	4466	0.6583	6.83	13.69
-pe-	5.00	15.00	-4782	4469	0.6582	6.83	13.69
-pe-	5.00	15.00	-4779	4473	0.6585	6.83	13.69
-pe-	5.00	15.00	-4777	4474	0.6581	6.83	13.69
-pe-	5.00	15.01	-4779	4474	0.6583	6.83	13.69

-pe- 5.00 15.01 -4777 4474 0.6580 6.83 13.69

Friday, June 11, 2021, Time 00:29

Setpoint No. 3  
Setpoint Upper: 5.00 °C  
Setpoint Lower: 15.00 °C  
Temperature Upper: 6.83 °C  
CalibFactor Upper: 0.026501  
Results Upper: 0.6859 W/mK  
Temperature Lower: 13.69 °C  
CalibFactor Lower: 0.026011  
Results Lower: 0.6304 W/mK  
Percent Difference: 8.42%

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
20.20	0.6821	0.6459	0.6640
15.22	0.6858	0.6355	0.6606
10.26	0.6859	0.6304	0.6582