

Thursday, January 05, 2023, Time 08:49

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: rec-s2-2023-01-05

Thickness: 29.15mm

Rear Left : 29.34 mm

Rear Right : 29.49 mm

Front Left: 28.80 mm

Front Right: 28.96 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: 63 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.46	24.06	-8552	9473	0.7930
-ne-	15.00	24.98	-6595	6644	0.5020
-te-	15.00	25.01	-6386	6503	0.4875
-te-	15.01	25.01	-6377	6503	0.4871
-pe-	15.01	25.02	-6376	6502	0.4870
-pe-	15.00	25.01	-6372	6501	0.4868
-pe-	15.01	25.01	-6371	6502	0.4869
-pe-	15.01	25.01	-6370	6505	0.4870
-pe-	15.01	25.02	-6367	6507	0.4868
-pe-	15.01	25.02	-6366	6507	0.4868
-pe-	15.01	25.02	-6362	6502	0.4864
-pe-	15.01	25.02	-6359	6501	0.4862
-pe-	15.01	25.02	-6358	6497	0.4860
-pe-	15.01	25.02	-6354	6495	0.4858
-pe-	15.01	25.02	-6355	6491	0.4858

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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: 0.4814 W/mK

Temperature Lower: 25.02 °C

CalibFactor Lower: 0.025934

Results Lower: 0.4904 W/mK

Percent Difference: 1.85%

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 [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
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-ne-	10.12	20.06	-14904	-3378	0.7033
-te-	9.99	19.99	-10278	2084	0.4728
-te-	10.00	19.99	-8595	3835	0.4750
-te-	10.00	20.00	-7587	4894	0.4762
-te-	10.00	20.00	-7003	5512	0.4771
-te-	10.00	20.01	-6664	5864	0.4774
-te-	10.01	20.01	-6467	6069	0.4776
-te-	10.01	20.01	-6357	6184	0.4776
-te-	10.01	20.01	-6288	6246	0.4774
-te-	10.00	20.01	-6257	6281	0.4776
-pe-	10.00	20.00	-6247	6290	0.4775
-pe-	10.00	19.99	-6243	6303	0.4781
-pe-	10.00	19.99	-6234	6320	0.4785
-pe-	10.00	20.00	-6226	6336	0.4785
-pe-	10.00	20.00	-6218	6343	0.4785
-pe-	10.00	20.01	-6216	6346	0.4785
-pe-	10.01	20.01	-6215	6345	0.4783
-pe-	10.01	20.01	-6212	6342	0.4781
-pe-	10.01	20.01	-6210	6338	0.4779
-pe-	10.00	20.01	-6208	6334	0.4775
-pe-	10.01	20.01	-6206	6331	0.4774
-pe-	10.01	20.01	-6200	6332	0.4771
-pe-	10.00	20.01	-6195	6328	0.4768
-pe-	10.01	20.01	-6192	6323	0.4766
-pe-	10.01	20.01	-6194	6320	0.4766

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Setpoint No.2
Setpoint Upper:10.00 °C
Setpoint Lower:20.00 °C
Temperature Upper:10.01 °C
CalibFactor Upper:0.026312
Results Upper:0.4748 W/mK
Temperature Lower:20.01 °C
CalibFactor Lower:0.025969
Results Lower:0.4784 W/mK
Percent Difference:0.76%

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	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.21	15.06	-14525	-3345	0.7003
-te-	4.99	14.99	-10119	2028	0.4690
-te-	4.99	15.00	-8448	3739	0.4690
-te-	5.00	15.00	-7455	4772	0.4696
-te-	5.00	15.00	-6881	5373	0.4702
-te-	5.00	15.00	-6547	5724	0.4706
-te-	5.00	15.00	-6359	5926	0.4709
-te-	5.00	15.00	-6243	6042	0.4709
-te-	5.00	15.01	-6183	6108	0.4710
-te-	5.00	15.00	-6150	6139	0.4709
-pe-	5.00	15.00	-6139	6151	0.4709
-pe-	5.00	15.00	-6124	6171	0.4711
-pe-	5.00	15.00	-6115	6182	0.4712
-pe-	5.00	15.00	-6109	6188	0.4712
-pe-	5.00	15.00	-6100	6195	0.4711
-pe-	5.00	15.01	-6102	6196	0.4712
-pe-	5.00	15.01	-6102	6193	0.4710

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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: 0.4730 W/mK  
Temperature Lower: 15.00 °C  
CalibFactor Lower: 0.026003  
Results Lower: 0.4692 W/mK  
Percent Difference: 0.80%

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	0.4814	0.4904	0.4859
15.01	0.4748	0.4784	0.4766
10.00	0.4730	0.4692	0.4711