

Wednesday, December 20, 2023, Time 09:07

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 2023_12_20_W3 iz 2023_smp 2

Thickness: 29.45mm

Rear Left : 29.41 mm

Rear Right : 29.57 mm

Front Left: 29.34 mm

Front Right: 29.49 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: 76 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.56	24.14	-13060	6340	0.8649
-ne-	14.99	24.97	-9530	4556	0.5401
-te-	15.00	25.01	-8342	5231	0.5189
-te-	15.00	25.01	-7767	5664	0.5134
-te-	15.00	25.01	-7422	5923	0.5101
-te-	15.01	25.02	-7216	6080	0.5082
-te-	15.01	25.01	-7078	6187	0.5070
-te-	15.00	25.01	-6991	6254	0.5062
-te-	15.01	25.01	-6935	6298	0.5058
-te-	15.01	25.02	-6904	6319	0.5054
-pe-	15.00	25.01	-6883	6336	0.5051
-pe-	15.00	25.01	-6862	6352	0.5049
-pe-	15.00	25.02	-6846	6361	0.5045
-pe-	15.00	25.02	-6830	6362	0.5039
-pe-	15.01	25.02	-6826	6363	0.5040
-pe-	15.00	25.01	-6820	6365	0.5038
-pe-	15.00	25.01	-6818	6364	0.5038
-pe-	15.01	25.02	-6821	6361	0.5038

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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: 0.5220 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.4856 W/mK

Percent Difference: 7.24%

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	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	10.14	20.06	-16210	-2723	0.7380
-te-	9.99	20.00	-11370	2641	0.5412
-te-	10.00	19.99	-9657	3926	0.5246
-te-	10.00	20.00	-8591	4753	0.5147
-te-	10.00	20.00	-7924	5279	0.5089
-te-	10.00	20.00	-7499	5614	0.5052
-te-	10.01	20.01	-7222	5832	0.5028
-te-	10.01	20.01	-7044	5969	0.5011
-te-	10.00	20.01	-6930	6060	0.5002
-te-	10.00	20.00	-6851	6124	0.4995
-te-	10.00	20.00	-6809	6156	0.4992
-pe-	10.00	20.00	-6786	6175	0.4990
-pe-	10.00	20.00	-6761	6200	0.4990
-pe-	10.00	20.00	-6738	6220	0.4988
-pe-	10.00	20.01	-6726	6227	0.4986
-pe-	10.00	20.00	-6716	6235	0.4985
-pe-	10.00	20.01	-6717	6233	0.4985

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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: 0.5206 W/mK
 Temperature Lower: 20.01 °C
 CalibFactor Lower: 0.025969
 Results Lower: 0.4765 W/mK
 Percent Difference: 8.85%

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: 97 min

Block Averages for setpoint 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.22	15.07	-15994	-2701	0.7406
-te-	4.99	15.00	-11157	2570	0.5353
-te-	4.99	15.00	-9475	3829	0.5176
-te-	5.00	15.00	-8430	4638	0.5076
-te-	5.00	15.00	-7772	5153	0.5016
-te-	5.00	15.00	-7356	5483	0.4979
-te-	5.00	15.01	-7091	5692	0.4956
-te-	5.00	15.00	-6914	5834	0.4941
-te-	5.00	15.00	-6805	5920	0.4931
-te-	5.00	15.00	-6735	5977	0.4925
-te-	5.00	15.00	-6687	6018	0.4922
-pe-	5.00	15.00	-6668	6033	0.4920
-pe-	4.99	15.00	-6640	6058	0.4919
-pe-	4.99	15.00	-6618	6073	0.4916
-pe-	5.00	15.00	-6609	6082	0.4915
-pe-	5.00	15.00	-6604	6087	0.4916
-pe-	5.00	15.00	-6604	6090	0.4917
-pe-	4.99	15.00	-6601	6095	0.4918
-pe-	5.00	15.01	-6600	6094	0.4917
-pe-	5.00	15.01	-6595	6097	0.4916
-pe-	5.00	15.01	-6592	6097	0.4915
-pe-	5.00	15.01	-6591	6095	0.4914
-pe-	5.00	15.01	-6595	6091	0.4914

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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: 0.5164 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026002
Results Lower: 0.4665 W/mK
Percent Difference: 10.16%

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	0.5220	0.4856	0.5038
15.00	0.5206	0.4765	0.4985
10.00	0.5164	0.4665	0.4914