

Friday, December 17, 2021, Time 09:35

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 50.50.0.H #2

Thickness: 29.79mm

Rear Left : 29.84 mm

Rear Right : 29.82 mm

Front Left: 29.77 mm

Front Right: 29.72 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-	15.27	23.94	-5570	10202	0.7029
-ne-	15.01	24.99	-4487	6544	0.4275
-te-	15.00	25.01	-4692	6011	0.4136
-te-	15.00	25.01	-4874	5754	0.4107
-te-	15.00	25.01	-4988	5594	0.4090
-te-	15.01	25.02	-5068	5483	0.4078
-te-	15.00	25.01	-5118	5411	0.4070
-te-	15.00	25.01	-5160	5369	0.4069
-pe-	15.01	25.02	-5169	5351	0.4066
-pe-	15.01	25.02	-5188	5329	0.4065
-pe-	15.01	25.02	-5201	5311	0.4063
-pe-	15.01	25.02	-5206	5298	0.4059
-pe-	15.01	25.02	-5214	5291	0.4060
-pe-	15.01	25.02	-5218	5280	0.4058
-pe-	15.01	25.01	-5218	5279	0.4057
-pe-	15.01	25.01	-5220	5279	0.4058
-pe-	15.01	25.02	-5222	5276	0.4058
-pe-	15.00	25.02	-5216	5278	0.4055

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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: 0.4041 W/mK

Temperature Lower: 25.02 °C

CalibFactor Lower: 0.025934

Results Lower: 0.4073 W/mK

Percent Difference: 0.79%

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: 80 min

Block Averages for setpoint 2 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	10.09	20.05	-12305	-4280	0.6498
-te-	10.00	20.00	-8132	1079	0.3602
-te-	10.00	20.00	-7129	2430	0.3735
-te-	10.00	20.00	-6456	3332	0.3819
-te-	10.00	20.00	-6014	3916	0.3871
-te-	10.00	20.00	-5724	4323	0.3915
-te-	10.00	20.00	-5527	4573	0.3935
-te-	10.00	20.00	-5399	4752	0.3954
-te-	10.00	20.00	-5309	4878	0.3967
-te-	10.00	20.00	-5244	4966	0.3976
-te-	10.00	20.00	-5205	5019	0.3980
-te-	10.00	20.01	-5174	5054	0.3982
-pe-	10.00	20.00	-5162	5074	0.3985
-pe-	10.00	20.00	-5144	5094	0.3986
-pe-	10.00	20.00	-5130	5111	0.3987
-pe-	10.00	20.00	-5123	5123	0.3989
-pe-	10.00	20.00	-5117	5131	0.3989
-pe-	10.00	20.00	-5109	5139	0.3989
-pe-	10.00	20.00	-5111	5138	0.3990

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Setpoint No. 2
Setpoint Upper: 10.00 °C
Setpoint Lower: 20.00 °C
Temperature Upper: 10.00 °C
CalibFactor Upper: 0.026313
Results Upper: 0.4006 W/mK
Temperature Lower: 20.00 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3972 W/mK
Percent Difference: 0.85%

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: 84 min

Block Averages for setpoint 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.14	15.06	-12116	-4220	0.6489
-te-	4.99	15.00	-7990	1021	0.3559
-te-	5.00	15.00	-7003	2348	0.3685
-te-	5.00	15.00	-6346	3228	0.3765
-te-	5.00	15.00	-5914	3817	0.3820
-te-	5.00	15.00	-5628	4201	0.3856
-te-	5.00	15.00	-5432	4468	0.3881
-te-	5.00	15.00	-5294	4646	0.3897
-te-	5.00	15.01	-5211	4769	0.3909
-te-	5.00	15.01	-5147	4852	0.3917
-te-	5.00	15.01	-5106	4902	0.3920
-te-	5.00	15.01	-5075	4943	0.3923
-pe-	5.00	15.00	-5060	4956	0.3922
-pe-	5.00	15.00	-5041	4977	0.3924
-pe-	5.00	15.00	-5031	4995	0.3927
-pe-	5.00	15.00	-5022	5002	0.3925
-pe-	5.00	15.00	-5016	5014	0.3929
-pe-	5.00	15.00	-5014	5018	0.3929
-pe-	5.00	15.00	-5010	5021	0.3928
-pe-	5.00	15.01	-5011	5020	0.3928

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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: 0.3970 W/mK
Temperature Lower: 15.00 °C
CalibFactor Lower: 0.026003
Results Lower: 0.3886 W/mK
Percent Difference: 2.15%

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	0.4041	0.4073	0.4057
15.00	0.4006	0.3972	0.3989
10.00	0.3970	0.3886	0.3928