

Wednesday, June 08, 2022, Time 09:56

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: w1s1-20220608

Thickness: 29.58mm

Rear Left : 29.46 mm

Rear Right : 29.54 mm

Front Left: 29.62 mm

Front Right: 29.69 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: 80 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	16.06	24.44	-12569	3086	0.7164
-ne-	15.00	24.97	-8263	2802	0.4267
-te-	15.00	25.01	-6941	3736	0.4100
-te-	15.00	25.01	-6293	4365	0.4092
-te-	15.00	25.01	-5907	4754	0.4093
-te-	15.00	25.01	-5673	4991	0.4094
-te-	15.00	25.01	-5532	5131	0.4093
-te-	15.00	25.01	-5447	5222	0.4095
-te-	15.01	25.01	-5397	5269	0.4095
-te-	15.01	25.01	-5365	5299	0.4094
-pe-	15.00	25.01	-5354	5309	0.4092
-pe-	15.00	25.01	-5338	5326	0.4093
-pe-	15.00	25.01	-5326	5337	0.4092
-pe-	15.00	25.01	-5323	5338	0.4092
-pe-	15.00	25.01	-5320	5340	0.4092
-pe-	15.00	25.01	-5318	5343	0.4092
-pe-	15.01	25.01	-5318	5342	0.4092
-pe-	15.00	25.01	-5316	5344	0.4091
-pe-	15.00	25.01	-5318	5343	0.4091

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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: 0.4088 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.4095 W/mK

Percent Difference: 0.16%

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

Setpoint duration: 89 min

Block Averages for setpoint 2 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	10.21	20.06	-13209	-3813	0.6707
-te-	9.99	20.00	-8799	1610	0.4041
-te-	10.00	20.00	-7412	2970	0.4024
-te-	10.00	20.00	-6545	3826	0.4015
-te-	10.00	20.00	-6018	4369	0.4020
-te-	10.00	20.00	-5693	4699	0.4020
-te-	10.00	20.00	-5493	4901	0.4019
-te-	10.00	20.00	-5378	5016	0.4019
-te-	10.00	20.00	-5306	5090	0.4019
-te-	10.00	20.01	-5261	5135	0.4018
-pe-	10.00	20.00	-5242	5151	0.4018
-pe-	10.00	20.00	-5222	5171	0.4018
-pe-	10.00	20.00	-5208	5189	0.4019
-pe-	10.00	20.00	-5200	5197	0.4019
-pe-	10.00	20.01	-5200	5195	0.4018
-pe-	10.00	20.01	-5199	5196	0.4018
-pe-	10.00	20.01	-5197	5197	0.4017
-pe-	10.01	20.01	-5196	5197	0.4018
-pe-	10.00	20.01	-5195	5198	0.4017
-pe-	10.00	20.00	-5192	5201	0.4017
-pe-	10.01	20.01	-5193	5199	0.4016

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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: 0.4041 W/mK
 Temperature Lower: 20.01 °C
 CalibFactor Lower: 0.025969
 Results Lower: 0.3993 W/mK
 Percent Difference: 1.20%

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: 85 min

Block Averages for setpoint 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.29	15.09	-12796	-3726	0.6598
-ne-	4.94	14.94	-8672	1468	0.3977
-te-	4.99	15.00	-7239	2866	0.3948
-te-	5.00	15.00	-6396	3720	0.3945
-te-	5.00	15.00	-5879	4246	0.3945
-te-	5.00	15.00	-5562	4570	0.3944
-te-	5.00	15.01	-5367	4770	0.3944
-te-	5.00	15.01	-5254	4884	0.3944
-te-	5.00	15.00	-5183	4955	0.3943
-te-	5.00	15.00	-5141	5000	0.3944
-pe-	4.99	15.00	-5126	5015	0.3943
-pe-	5.00	15.00	-5103	5038	0.3944
-pe-	4.99	15.00	-5093	5049	0.3944
-pe-	5.00	15.00	-5085	5058	0.3945
-pe-	5.00	15.00	-5084	5059	0.3944
-pe-	5.00	15.00	-5077	5066	0.3944
-pe-	5.00	15.00	-5077	5067	0.3944
-pe-	5.00	15.00	-5077	5067	0.3944
-pe-	5.00	15.01	-5077	5065	0.3944
-pe-	5.00	15.01	-5078	5063	0.3943

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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: 0.3994 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026002
Results Lower: 0.3894 W/mK
Percent Difference: 2.54%

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	0.4088	0.4095	0.4091
15.00	0.4041	0.3993	0.4017
10.00	0.3994	0.3894	0.3944