

Tuesday, June 07, 2022, Time 10:28

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: w1s1-20220607

Thickness: 28.01mm

Rear Left : 27.69 mm

Rear Right : 27.79 mm

Front Left: 28.24 mm

Front Right: 28.32 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-	16.13	24.46	-13262	1823	0.6581
-ne-	15.00	24.96	-8843	2343	0.4088
-te-	15.00	25.01	-7382	3561	0.3979
-te-	15.00	25.01	-6642	4333	0.3991
-te-	15.00	25.01	-6203	4799	0.4000
-te-	15.00	25.01	-5942	5077	0.4005
-te-	15.00	25.01	-5791	5239	0.4010
-te-	15.00	25.01	-5701	5333	0.4011
-te-	15.00	25.01	-5651	5389	0.4013
-te-	15.01	25.01	-5620	5421	0.4013
-pe-	15.00	25.01	-5610	5430	0.4013
-pe-	15.00	25.01	-5597	5445	0.4014
-pe-	15.00	25.01	-5586	5457	0.4014
-pe-	15.00	25.01	-5577	5467	0.4015
-pe-	15.00	25.01	-5574	5472	0.4015
-pe-	15.00	25.01	-5572	5475	0.4015
-pe-	15.01	25.01	-5572	5474	0.4015
-pe-	15.00	25.01	-5571	5474	0.4015
-pe-	15.01	25.01	-5572	5473	0.4014

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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: 0.4057 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3973 W/mK

Percent Difference: 2.09%

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 [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.20	20.05	-13135	-3819	0.6323
-te-	9.99	20.00	-8865	1648	0.3865
-te-	10.00	20.00	-7529	3078	0.3892
-te-	10.00	20.00	-6699	3961	0.3910
-te-	10.00	20.00	-6200	4514	0.3925
-te-	10.00	20.00	-5893	4844	0.3933
-te-	10.00	20.00	-5710	5043	0.3938
-te-	10.00	20.01	-5603	5160	0.3941
-te-	10.00	20.01	-5539	5231	0.3943
-te-	10.00	20.01	-5498	5273	0.3943
-pe-	10.00	20.00	-5482	5289	0.3944
-pe-	10.00	20.00	-5466	5305	0.3943
-pe-	10.00	20.00	-5457	5316	0.3944
-pe-	10.00	20.00	-5453	5321	0.3944
-pe-	10.00	20.00	-5450	5323	0.3944
-pe-	10.00	20.00	-5447	5325	0.3943
-pe-	10.00	20.01	-5446	5324	0.3942
-pe-	10.00	20.01	-5446	5323	0.3942
-pe-	10.01	20.01	-5449	5320	0.3942

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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: 0.4014 W/mK
Temperature Lower: 20.01 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3871 W/mK
Percent Difference: 3.62%

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]
-ne-	5.29	15.08	-12680	-3803	0.6237
-ne-	4.94	14.94	-8726	1468	0.3787
-te-	4.99	15.00	-7345	2960	0.3813
-te-	5.00	15.00	-6541	3849	0.3837
-te-	5.00	15.00	-6051	4389	0.3852
-te-	5.00	15.00	-5759	4712	0.3860
-te-	5.00	15.00	-5581	4913	0.3867
-te-	5.00	15.01	-5476	5024	0.3868
-te-	5.00	15.00	-5412	5094	0.3870
-te-	5.00	15.00	-5381	5129	0.3871
-pe-	5.00	15.00	-5365	5145	0.3871
-pe-	5.00	15.00	-5348	5164	0.3872
-pe-	5.00	15.00	-5339	5175	0.3873
-pe-	5.00	15.00	-5334	5183	0.3873
-pe-	5.00	15.00	-5331	5186	0.3874
-pe-	5.00	15.01	-5332	5186	0.3874
-pe-	5.00	15.00	-5332	5186	0.3874
-pe-	5.00	15.00	-5332	5186	0.3874
-pe-	5.00	15.00	-5330	5188	0.3874
-pe-	5.00	15.01	-5332	5184	0.3873

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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: 0.3972 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026003
Results Lower: 0.3775 W/mK
Percent Difference: 5.07%

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	0.4057	0.3973	0.4015
15.00	0.4014	0.3871	0.3942
10.00	0.3972	0.3775	0.3873