

Thursday, December 09, 2021, Time 08:03

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: M2-F2

Thickness: 29.07mm

Rear Left : 28.91 mm Rear Right : 28.96 mm

Front Left: 29.18 mm Front Right: 29.24 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: 59 min

Block Averages for setpoint 1 in SI units

Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
15.22	23.92	-5246	9882	0.6565
15.01	24.98	-3757	5467	0.3490
15.01	25.01	-3903	4948	0.3338
15.01	25.02	-4058	4753	0.3323
15.01	25.01	-4157	4632	0.3316
15.01	25.02	-4226	4563	0.3315
15.01	25.02	-4264	4522	0.3314
15.01	25.02	-4278	4502	0.3312
15.01	25.02	-4293	4484	0.3311
15.01	25.02	-4308	4468	0.3310
15.01	25.02	-4315	4456	0.3308
15.01	25.02	-4320	4447	0.3307
15.01	25.02	-4320	4449	0.3308
15.01	25.02	-4318	4446	0.3306

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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: 0.3264 W/mK

Temperature Lower: 25.02 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3350 W/mK

Percent Difference: 2.59%

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: 76 min

Block Averages for setpoint 2 in SI units

Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
10.09	20.05	-11717	-4252	0.6110

-te-	10.00	20.01	-7195	1252	0.3221
-te-	10.00	20.00	-6085	2397	0.3233
-te-	10.00	20.00	-5386	3118	0.3238
-te-	10.00	20.00	-4951	3582	0.3245
-te-	10.00	20.01	-4677	3869	0.3248
-te-	10.00	20.00	-4513	4034	0.3249
-te-	10.00	20.00	-4406	4154	0.3253
-te-	10.00	20.00	-4341	4225	0.3255
-te-	10.00	20.01	-4293	4264	0.3251
-pe-	10.00	20.00	-4274	4288	0.3254
-pe-	10.00	20.00	-4252	4312	0.3253
-pe-	10.00	20.00	-4233	4325	0.3251
-pe-	10.00	20.00	-4226	4334	0.3252
-pe-	10.00	20.00	-4222	4337	0.3251
-pe-	10.00	20.00	-4220	4339	0.3252
-pe-	10.00	20.00	-4220	4338	0.3251
-pe-	10.00	20.00	-4222	4339	0.3253

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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: 0.3228 W/mK
 Temperature Lower: 20.00 °C
 CalibFactor Lower: 0.025969
 Results Lower: 0.3275 W/mK
 Percent Difference: 1.45%

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]
5.14	15.04	-11478	-4211	0.6093
4.99	15.00	-7046	1220	0.3184
5.00	15.00	-5967	2332	0.3188
5.00	15.00	-5285	3044	0.3194
5.00	15.00	-4862	3488	0.3198
5.00	15.01	-4598	3767	0.3200
5.00	15.01	-4424	3945	0.3200
5.00	15.01	-4314	4062	0.3202
5.00	15.01	-4252	4120	0.3200
5.00	15.00	-4221	4156	0.3202
4.99	15.00	-4204	4177	0.3203
4.99	15.00	-4182	4203	0.3205
4.99	15.00	-4169	4219	0.3206
4.99	15.00	-4157	4233	0.3206
5.00	15.00	-4153	4242	0.3208
5.00	15.00	-4147	4245	0.3207
5.00	15.01	-4142	4251	0.3207
5.00	15.01	-4138	4254	0.3206
5.00	15.01	-4135	4254	0.3205
5.00	15.01	-4137	4248	0.3204

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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: 0.3198 W/mK
 Temperature Lower: 15.01 °C

CalibFactor Lower: 0.026002
Results Lower: 0.3212 W/mK
Percent Difference: 0.43%

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	0.3264	0.3350	0.3307
15.00	0.3228	0.3275	0.3252
10.01	0.3198	0.3212	0.3205