

Monday, November 08, 2021, Time 09:40

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE\_OSa.48.48.4#1

Thickness: 30.63mm

Rear Left : 30.63 mm

Rear Right : 30.58 mm

Front Left: 30.68 mm

Front Right: 30.63 mm

[ ]

[ ]

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-	15.88	24.44	-11310	4401	0.7297
-ne-	14.96	24.95	-7552	2535	0.4021
-te-	15.00	25.01	-6264	3041	0.3701
-te-	15.00	25.01	-5625	3373	0.3578
-te-	15.00	25.01	-5199	3598	0.3497
-te-	15.00	25.01	-4915	3751	0.3445
-te-	15.01	25.01	-4721	3858	0.3411
-te-	15.00	25.01	-4597	3923	0.3387
-te-	15.00	25.01	-4508	3971	0.3371
-te-	15.00	25.01	-4461	3997	0.3362
-pe-	15.00	25.01	-4430	4013	0.3355
-pe-	15.00	25.01	-4400	4031	0.3351
-pe-	15.00	25.01	-4381	4043	0.3349
-pe-	15.00	25.01	-4364	4052	0.3345
-pe-	15.00	25.02	-4354	4054	0.3341
-pe-	15.00	25.02	-4348	4059	0.3341
-pe-	15.00	25.02	-4343	4057	0.3339
-pe-	15.01	25.01	-4339	4059	0.3338
-pe-	15.01	25.01	-4341	4059	0.3339

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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: 0.3456 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3221 W/mK

Percent Difference: 7.05%

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 [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.24	20.11	-13002	-2612	0.6363
-te-	9.99	19.98	-8426	1763	0.4103
-te-	10.00	20.00	-7104	2417	0.3823
-te-	10.00	20.00	-6181	2914	0.3649
-te-	10.00	20.00	-5550	3258	0.3532
-te-	10.00	20.00	-5129	3487	0.3453
-te-	10.01	20.01	-4844	3641	0.3400
-te-	10.00	20.01	-4657	3743	0.3364
-te-	10.00	20.01	-4528	3813	0.3341
-te-	10.00	20.01	-4445	3859	0.3326
-te-	10.00	20.01	-4386	3891	0.3315
-te-	10.00	20.00	-4348	3912	0.3308
-pe-	10.00	20.00	-4332	3923	0.3305
-pe-	10.00	20.00	-4311	3935	0.3302
-pe-	10.00	20.00	-4295	3943	0.3299
-pe-	10.00	20.00	-4287	3948	0.3297
-pe-	10.00	20.00	-4283	3950	0.3296
-pe-	10.00	20.00	-4279	3950	0.3295
-pe-	10.00	20.00	-4275	3953	0.3295
-pe-	10.00	20.00	-4273	3956	0.3295
-pe-	10.00	20.01	-4274	3954	0.3295

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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: 0.3445 W/mK  
Temperature Lower: 20.00 °C  
CalibFactor Lower: 0.025969  
Results Lower: 0.3145 W/mK  
Percent Difference: 9.09%

## 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: 89 min

## Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.35	15.17	-12643	-2544	0.6275
-ne-	4.90	14.87	-8421	1586	0.4079
-te-	4.99	15.00	-6960	2396	0.3789
-te-	5.00	15.00	-6065	2852	0.3605
-te-	5.00	15.00	-5455	3180	0.3488
-te-	5.00	15.00	-5044	3402	0.3409
-te-	5.00	15.00	-4765	3555	0.3356
-te-	5.00	15.00	-4583	3655	0.3322
-te-	5.00	15.01	-4458	3723	0.3298
-te-	5.00	15.00	-4376	3768	0.3282
-te-	5.00	15.00	-4320	3798	0.3271
-te-	5.00	15.00	-4280	3820	0.3264
-pe-	4.99	15.00	-4263	3831	0.3261
-pe-	4.99	15.00	-4241	3845	0.3258
-pe-	5.00	15.00	-4229	3848	0.3254
-pe-	5.00	15.00	-4217	3856	0.3252
-pe-	5.00	15.00	-4210	3860	0.3251
-pe-	5.00	15.01	-4205	3861	0.3250
-pe-	5.00	15.00	-4200	3864	0.3249
-pe-	5.00	15.01	-4199	3863	0.3248
-pe-	5.00	15.01	-4201	3861	0.3248

Setpoint No. 3  
 Setpoint Upper: 5.00 °C  
 Setpoint Lower: 15.00 °C  
 Temperature Upper: 5.00 °C  
 CalibFactor Upper: 0.026610  
 Results Upper: 0.3421 W/mK  
 Temperature Lower: 15.01 °C  
 CalibFactor Lower: 0.026002  
 Results Lower: 0.3075 W/mK  
 Percent Difference: 10.66%

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	0.3456	0.3221	0.3339
15.00	0.3445	0.3145	0.3295
10.00	0.3421	0.3075	0.3248