

Friday, December 17, 2021, Time 15:20

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 50.50.0.H #3

Thickness: 31.01mm

Rear Left : 31.01 mm

Rear Right : 31.11 mm

Front Left: 30.91 mm

Front Right: 31.01 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: 93 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.35	24.05	-4701	10252	0.6922
-ne-	15.01	24.99	-3594	6311	0.3994
-te-	15.00	25.02	-3785	5656	0.3797
-te-	15.01	25.01	-3975	5313	0.3737
-te-	15.01	25.02	-4118	5072	0.3697
-te-	15.00	25.01	-4204	4904	0.3665
-te-	15.01	25.01	-4269	4797	0.3649
-te-	15.00	25.01	-4316	4722	0.3636
-te-	15.01	25.01	-4347	4659	0.3625
-te-	15.00	25.01	-4371	4622	0.3618
-pe-	15.01	25.02	-4379	4607	0.3616
-pe-	15.01	25.02	-4394	4585	0.3613
-pe-	15.01	25.02	-4405	4563	0.3609
-pe-	15.01	25.02	-4412	4554	0.3608
-pe-	15.01	25.02	-4414	4548	0.3606
-pe-	15.01	25.02	-4418	4541	0.3605
-pe-	15.01	25.02	-4420	4536	0.3604
-pe-	15.01	25.02	-4420	4536	0.3604
-pe-	15.01	25.02	-4422	4531	0.3602
-pe-	15.01	25.02	-4421	4528	0.3601
-pe-	15.01	25.02	-4424	4523	0.3600
-pe-	15.00	25.01	-4421	4527	0.3601

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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: 0.3565 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3637 W/mK

Percent Difference: 2.01%

Thermal Equilibrium Criteria:

Temperature Equilibrium: 0.20

Between Block HFM Equil.: 49

HFM Percent Change: 2.00

Min Number of Blocks: 4

Setpoint duration: 101 min

## Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.08	20.06	-10745	-5136	0.6464
-te-	10.00	20.00	-6837	185	0.2862
-te-	10.00	20.00	-6082	1461	0.3072
-te-	10.00	20.00	-5548	2354	0.3213
-te-	10.00	20.00	-5179	2981	0.3314
-te-	10.00	20.00	-4922	3409	0.3381
-te-	10.00	20.01	-4751	3713	0.3432
-te-	10.00	20.00	-4622	3914	0.3462
-te-	10.00	20.01	-4536	4058	0.3484
-te-	10.01	20.01	-4474	4159	0.3500
-te-	10.01	20.01	-4436	4225	0.3511
-te-	10.01	20.01	-4396	4275	0.3515
-te-	10.01	20.01	-4374	4309	0.3520
-pe-	10.00	20.00	-4362	4327	0.3522
-pe-	10.00	20.00	-4350	4352	0.3527
-pe-	10.00	20.00	-4339	4367	0.3529
-pe-	10.00	20.00	-4331	4378	0.3530
-pe-	10.00	20.00	-4327	4385	0.3531
-pe-	10.00	20.00	-4323	4388	0.3530
-pe-	10.00	20.00	-4322	4395	0.3534
-pe-	10.00	20.00	-4321	4403	0.3536
-pe-	10.00	20.00	-4318	4406	0.3536
-pe-	10.00	20.00	-4316	4408	0.3536
-pe-	10.00	20.00	-4321	4405	0.3536

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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: 0.3524 W/mK  
Temperature Lower: 20.00 °C  
CalibFactor Lower: 0.025969  
Results Lower: 0.3548 W/mK  
Percent Difference: 0.70%

## 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: 97 min

## Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.14	15.05	-10552	-5086	0.6464
-te-	4.99	15.00	-6702	169	0.2833
-te-	5.00	15.00	-5964	1418	0.3031
-te-	5.00	15.00	-5445	2290	0.3169
-te-	5.00	15.00	-5091	2889	0.3264
-te-	5.00	15.00	-4838	3315	0.3332
-te-	5.00	15.00	-4668	3601	0.3376
-te-	5.00	15.01	-4543	3810	0.3409
-te-	5.00	15.01	-4458	3951	0.3431
-te-	5.00	15.00	-4398	4053	0.3447
-te-	5.00	15.00	-4355	4124	0.3458
-te-	5.00	15.00	-4325	4181	0.3469
-te-	5.00	15.00	-4305	4208	0.3472
-pe-	4.99	15.00	-4293	4229	0.3475
-pe-	5.00	15.00	-4280	4255	0.3481
-pe-	4.99	15.00	-4267	4271	0.3481

-pe-	5.00	15.00	-4261	4289	0.3488
-pe-	5.00	15.00	-4257	4294	0.3487
-pe-	5.00	15.01	-4253	4302	0.3488
-pe-	5.00	15.01	-4249	4307	0.3488
-pe-	5.00	15.01	-4247	4305	0.3486
-pe-	5.00	15.01	-4245	4306	0.3486
-pe-	5.00	15.01	-4247	4303	0.3485

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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: 0.3502 W/mK  
Temperature Lower: 15.01 °C  
CalibFactor Lower: 0.026002  
Results Lower: 0.3469 W/mK  
Percent Difference: 0.96%

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	0.3565	0.3637	0.3601
15.00	0.3524	0.3548	0.3536
10.00	0.3502	0.3469	0.3486