

Friday, December 08, 2023, Time 08:16

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 2023-W3-2a

Thickness: 28.38mm

Rear Left : 28.65 mm

Rear Right : 28.37 mm

Front Left: 28.40 mm

Front Right: 28.12 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: 67 min

Block Averages for setpoint 1 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	15.46	24.10	-5724	12637	0.7823
-ne-	15.03	25.00	-5960	9317	0.5646
-te-	15.01	25.02	-6723	8396	0.5566
-te-	15.01	25.02	-7180	7959	0.5575
-te-	15.00	25.01	-7428	7728	0.5581
-te-	15.00	25.01	-7558	7609	0.5587
-te-	15.00	25.01	-7636	7544	0.5592
-te-	15.01	25.01	-7675	7507	0.5592
-pe-	15.01	25.02	-7692	7495	0.5594
-pe-	15.01	25.02	-7709	7476	0.5593
-pe-	15.01	25.02	-7723	7459	0.5592
-pe-	15.01	25.02	-7731	7450	0.5591
-pe-	15.01	25.02	-7736	7438	0.5588
-pe-	15.01	25.02	-7740	7432	0.5588
-pe-	15.01	25.01	-7739	7432	0.5588
-pe-	15.01	25.02	-7736	7434	0.5588

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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: 0.5709 W/mK

Temperature Lower: 25.02 °C

CalibFactor Lower: 0.025934

Results Lower: 0.5466 W/mK

Percent Difference: 4.35%

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: 110 min

Block Averages for setpoint 2 in SI units

Tupper	Tlower	Qupper	Qlower	Lambda
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	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	10.15	20.07	-16962	-2799	0.7427
-te-	9.99	19.99	-11993	3279	0.5686
-te-	10.00	19.99	-10036	5082	0.5624
-te-	10.00	20.00	-8947	6092	0.5587
-te-	10.00	20.00	-8361	6652	0.5574
-te-	10.00	20.00	-8036	6956	0.5563
-te-	10.00	20.01	-7854	7125	0.5558
-te-	10.00	20.00	-7759	7213	0.5555
-te-	10.00	20.01	-7705	7263	0.5553
-te-	10.00	20.01	-7670	7291	0.5551
-pe-	10.00	20.01	-7663	7298	0.5549
-pe-	10.00	20.00	-7648	7305	0.5547
-pe-	10.00	20.00	-7637	7314	0.5545
-pe-	10.00	20.00	-7628	7319	0.5544
-pe-	10.00	20.01	-7624	7320	0.5544
-pe-	10.01	20.01	-7622	7321	0.5543
-pe-	10.00	20.01	-7617	7317	0.5538
-pe-	10.01	20.01	-7616	7313	0.5538
-pe-	10.00	20.01	-7616	7310	0.5537
-pe-	10.00	20.01	-7614	7306	0.5534
-pe-	10.01	20.01	-7613	7304	0.5533
-pe-	10.00	20.01	-7609	7305	0.5532
-pe-	10.00	20.01	-7607	7304	0.5531
-pe-	10.01	20.01	-7607	7302	0.5531
-pe-	10.00	20.01	-7601	7303	0.5528
-pe-	10.01	20.01	-7607	7299	0.5530

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Setpoint No.2

Setpoint Upper:10.00°C
Setpoint Lower:20.00°C

Temperature Upper:10.01°C
CalibFactor Upper:0.026312
Results Upper:0.5678W/mK
Temperature Lower:20.01°C
CalibFactor Lower:0.025969
Results Lower:0.5381W/mK
Percent Difference:5.39%

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: 93 min

Block Averages for setpoint 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.24	15.07	-16835	-2763	0.7500
-te-	4.98	14.99	-11830	3209	0.5650
-te-	4.99	15.00	-9891	4980	0.5570
-te-	4.99	15.00	-8810	5974	0.5528
-te-	5.00	15.00	-8228	6515	0.5508
-te-	5.00	15.00	-7907	6813	0.5497
-te-	5.00	15.00	-7729	6962	0.5486
-te-	5.00	15.01	-7638	7068	0.5490
-te-	5.00	15.01	-7585	7107	0.5484
-te-	5.00	15.01	-7557	7136	0.5484
-pe-	5.00	15.00	-7543	7145	0.5483
-pe-	4.99	15.00	-7528	7153	0.5480
-pe-	5.00	15.00	-7518	7158	0.5478
-pe-	5.00	15.00	-7507	7165	0.5476
-pe-	5.00	15.01	-7504	7162	0.5473
-pe-	5.00	15.01	-7504	7158	0.5472
-pe-	5.00	15.01	-7503	7155	0.5470
-pe-	5.00	15.00	-7495	7161	0.5470
-pe-	5.00	15.01	-7495	7160	0.5470
-pe-	5.00	15.01	-7493	7159	0.5468

-pe-	5.00	15.00	-7491	7159	0.5468
-pe-	5.00	15.00	-7492	7158	0.5469

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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: 0.5656 W/mK
Temperature Lower: 15.00 °C
CalibFactor Lower: 0.026003
Results Lower: 0.5281 W/mK
Percent Difference: 6.86%

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	0.5709	0.5466	0.5588
15.01	0.5678	0.5381	0.5530
10.00	0.5656	0.5281	0.5468