

Wednesday, December 08, 2021, Time 15:53

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: M1-F3 - 20211208

Thickness: 29.16mm

Rear Left : 29.01 mm

Rear Right : 29.29 mm

Front Left: 29.03 mm

Front Right: 29.31 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: 63 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.51	24.16	-6232	8477	0.6433
-ne-	15.01	24.99	-4120	4651	0.3327
-te-	15.00	25.01	-4007	4409	0.3185
-te-	15.00	25.01	-4065	4338	0.3179
-te-	15.00	25.01	-4103	4307	0.3182
-pe-	15.01	25.02	-4117	4288	0.3180
-pe-	15.01	25.02	-4134	4273	0.3181
-pe-	15.01	25.02	-4151	4256	0.3181
-pe-	15.01	25.02	-4161	4243	0.3180
-pe-	15.01	25.02	-4164	4238	0.3179
-pe-	15.01	25.02	-4167	4231	0.3177
-pe-	15.01	25.02	-4166	4230	0.3176
-pe-	15.00	25.01	-4168	4225	0.3175
-pe-	15.01	25.01	-4168	4225	0.3176
-pe-	15.01	25.01	-4166	4228	0.3176

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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:	0.3159	W/mK
Temperature Lower:	25.01	°C
CalibFactor Lower:	0.025934	
Results Lower:	0.3193	W/mK
Percent Difference:	1.08%	

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]
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-ne-	10.09	20.04	-11687	-3746	0.5929
-te-	10.00	20.00	-7049	1256	0.3178
-te-	10.00	20.00	-5975	2287	0.3159
-te-	10.00	20.00	-5285	2951	0.3145
-te-	10.00	20.01	-4841	3382	0.3137
-te-	10.00	20.00	-4565	3643	0.3130
-te-	10.00	20.00	-4391	3814	0.3129
-te-	10.00	20.00	-4270	3933	0.3127
-te-	10.00	20.00	-4203	4002	0.3127
-te-	10.00	20.00	-4153	4050	0.3126
-te-	10.00	20.00	-4125	4075	0.3126
-pe-	10.00	20.00	-4108	4088	0.3123
-pe-	10.00	20.00	-4097	4105	0.3126
-pe-	10.00	20.00	-4081	4118	0.3124
-pe-	10.00	20.00	-4076	4125	0.3125
-pe-	10.00	20.01	-4071	4129	0.3125
-pe-	10.00	20.01	-4068	4130	0.3123
-pe-	10.00	20.01	-4067	4130	0.3123
-pe-	10.01	20.01	-4067	4128	0.3123

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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: 0.3120 W/mK
Temperature Lower: 20.01 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3126 W/mK
Percent Difference: 0.20%

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	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.15	15.05	-11508	-3686	0.5922
-te-	4.99	15.00	-6927	1216	0.3146
-te-	5.00	15.01	-5874	2226	0.3121
-te-	5.00	15.01	-5191	2879	0.3104
-te-	5.00	15.00	-4761	3298	0.3095
-te-	5.00	15.00	-4481	3563	0.3088
-te-	5.00	15.01	-4302	3741	0.3085
-te-	5.00	15.01	-4190	3846	0.3082
-te-	5.00	15.01	-4122	3911	0.3080
-te-	5.00	15.01	-4070	3960	0.3079
-te-	5.00	15.01	-4051	3979	0.3078
-pe-	4.99	15.00	-4041	3991	0.3079
-pe-	4.99	15.00	-4029	4004	0.3080
-pe-	4.99	15.00	-4014	4020	0.3080
-pe-	5.00	15.00	-4004	4029	0.3079
-pe-	5.00	15.01	-3998	4035	0.3079
-pe-	5.00	15.01	-3994	4038	0.3079
-pe-	5.00	15.01	-3993	4039	0.3078
-pe-	5.00	15.01	-3991	4037	0.3077
-pe-	5.00	15.01	-3992	4035	0.3077

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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: 0.3096 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026002
Results Lower: 0.3059 W/mK
Percent Difference: 1.18%

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	0.3159	0.3193	0.3176
15.01	0.3120	0.3126	0.3123
10.01	0.3096	0.3059	0.3077