

Friday, November 05, 2021, Time 13:23

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE_OSa.50.25.25#2

Thickness: 29.76mm

Rear Left : 29.51 mm

Rear Right : 29.51 mm

Front Left: 30.00 mm

Front Right: 30.02 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-	15.81	24.44	-8956	4842	0.6176
-ne-	14.98	24.96	-6188	2886	0.3514
-te-	15.00	25.01	-5422	3245	0.3349
-te-	15.00	25.01	-5049	3492	0.3300
-te-	15.00	25.01	-4791	3670	0.3268
-te-	15.00	25.01	-4622	3788	0.3248
-te-	15.00	25.01	-4507	3865	0.3233
-te-	15.01	25.01	-4430	3918	0.3225
-te-	15.00	25.01	-4386	3944	0.3217
-pe-	15.00	25.01	-4355	3975	0.3218
-pe-	15.00	25.01	-4325	3996	0.3213
-pe-	15.00	25.01	-4305	4008	0.3210
-pe-	15.00	25.01	-4298	4014	0.3210
-pe-	15.00	25.01	-4292	4014	0.3208
-pe-	15.00	25.01	-4285	4024	0.3209
-pe-	15.00	25.01	-4281	4026	0.3208
-pe-	15.00	25.01	-4278	4031	0.3209
-pe-	15.00	25.01	-4273	4032	0.3208
-pe-	15.01	25.01	-4274	4031	0.3208

Friday, November 05, 2021, Time 14:43

Setpoint No. 1

Setpoint Upper: 15.00 °C

Setpoint Lower: 25.00 °C

Temperature Upper: 15.00 °C

CalibFactor Upper: 0.026016

Results Upper: 0.3307 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3109 W/mK

Percent Difference: 6.17%

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	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	10.23	20.10	-11599	-2769	0.5679
-te-	9.99	19.98	-7785	1474	0.3622
-te-	10.00	20.00	-6679	2191	0.3461
-te-	10.00	20.00	-5888	2748	0.3367
-te-	10.00	20.00	-5344	3129	0.3301
-te-	10.00	20.01	-4973	3390	0.3257
-te-	10.00	20.00	-4722	3568	0.3227
-te-	10.00	20.01	-4554	3683	0.3206
-te-	10.00	20.01	-4442	3761	0.3192
-te-	10.00	20.00	-4364	3818	0.3184
-te-	10.00	20.00	-4307	3858	0.3177
-te-	10.00	20.00	-4272	3882	0.3172
-pe-	10.00	20.00	-4257	3895	0.3171
-pe-	10.00	20.00	-4236	3906	0.3168
-pe-	10.00	20.00	-4224	3917	0.3167
-pe-	10.00	20.00	-4217	3922	0.3167
-pe-	10.00	20.00	-4207	3928	0.3164
-pe-	10.00	20.00	-4203	3930	0.3164
-pe-	10.00	20.01	-4202	3931	0.3164
-pe-	10.00	20.00	-4198	3933	0.3163
-pe-	10.01	20.01	-4199	3930	0.3163

Friday, November 05, 2021, Time 16:12

Setpoint No. 2
Setpoint Upper: 10.00 °C
Setpoint Lower: 20.00 °C
Temperature Upper: 10.00 °C
CalibFactor Upper: 0.026312
Results Upper: 0.3288 W/mK
Temperature Lower: 20.01 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3038 W/mK
Percent Difference: 7.92%

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-	5.33	15.15	-11225	-2699	0.5586
-ne-	4.91	14.88	-7741	1312	0.3585
-te-	4.99	15.00	-6538	2171	0.3427
-te-	5.00	15.00	-5768	2688	0.3322
-te-	5.00	15.00	-5235	3062	0.3256
-te-	5.00	15.00	-4871	3315	0.3210
-te-	5.00	15.00	-4623	3489	0.3179
-te-	5.00	15.00	-4460	3604	0.3159
-te-	5.00	15.00	-4349	3682	0.3145
-te-	5.00	15.00	-4276	3735	0.3137
-te-	5.00	15.00	-4228	3769	0.3131
-pe-	4.99	15.00	-4200	3788	0.3127
-pe-	4.99	15.00	-4170	3810	0.3123
-pe-	4.99	15.00	-4150	3825	0.3121
-pe-	5.00	15.00	-4139	3832	0.3120
-pe-	5.00	15.00	-4132	3836	0.3119
-pe-	5.00	15.00	-4128	3839	0.3118
-pe-	5.00	15.00	-4125	3841	0.3118
-pe-	5.00	15.00	-4124	3841	0.3117
-pe-	5.00	15.01	-4119	3844	0.3117
-pe-	5.00	15.01	-4120	3844	0.3118
-pe-	5.00	15.01	-4119	3843	0.3116

Setpoint No. 3
Setpoint Upper: 5.00 °C
Setpoint Lower: 15.00 °C
Temperature Upper: 5.00 °C
CalibFactor Upper: 0.026610
Results Upper: 0.3261 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026003
Results Lower: 0.2973 W/mK
Percent Difference: 9.23%

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	0.3307	0.3109	0.3208
15.01	0.3288	0.3038	0.3163
10.00	0.3261	0.2973	0.3117