

Friday, October 22, 2021, Time 07:56

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE\_OSa.40.20.40

Thickness: 30.40mm

Rear Left : 30.12 mm

Rear Right : 31.06 mm

Front Left: 29.74 mm

Front Right: 30.68 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: 114 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	16.85	24.98	-12830	827	0.6614
-ne-	15.02	24.94	-9064	1211	0.4094
-te-	14.98	24.99	-7255	1794	0.3571
-te-	14.98	24.98	-6131	2193	0.3287
-te-	14.99	24.99	-5352	2486	0.3096
-te-	14.99	25.00	-4827	2677	0.2963
-te-	14.99	25.00	-4479	2811	0.2878
-te-	14.96	24.96	-4313	2821	0.2818
-te-	15.01	25.01	-4036	3014	0.2784
-te-	15.01	25.02	-3953	3000	0.2744
-te-	15.00	25.01	-3892	3020	0.2728
-te-	15.01	25.02	-3839	3049	0.2718
-te-	15.01	25.02	-3810	3052	0.2708
-pe-	15.00	25.02	-3797	3058	0.2703
-pe-	15.00	25.02	-3779	3065	0.2700
-pe-	15.00	25.02	-3763	3072	0.2696
-pe-	15.00	25.02	-3753	3077	0.2694
-pe-	15.01	25.02	-3745	3079	0.2692
-pe-	15.01	25.02	-3739	3080	0.2690
-pe-	15.01	25.02	-3735	3079	0.2688
-pe-	15.01	25.02	-3734	3080	0.2688
-pe-	15.01	25.02	-3733	3080	0.2688
-pe-	15.01	25.02	-3730	3081	0.2687
-pe-	15.01	25.02	-3725	3082	0.2685
-pe-	15.01	25.02	-3722	3084	0.2685
-pe-	15.01	25.02	-3721	3084	0.2684
-pe-	15.01	25.02	-3722	3080	0.2684

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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: 0.2941 W/mK

Temperature Lower: 25.02 °C

CalibFactor Lower: 0.025934

Results Lower: 0.2428 W/mK

Percent Difference: 19.10%

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-	10.19	20.05	-12049	-2173	0.5756
-te-	10.00	20.00	-7940	1485	0.3759
-te-	10.00	20.00	-6678	1878	0.3412
-te-	10.00	20.01	-5761	2218	0.3179
-te-	10.00	20.01	-5113	2460	0.3015
-te-	10.00	20.00	-4671	2623	0.2903
-te-	10.00	20.00	-4363	2740	0.2826
-te-	10.00	20.00	-4149	2816	0.2771
-te-	10.00	20.01	-4004	2873	0.2735
-te-	10.00	20.00	-3902	2910	0.2709
-te-	10.00	20.01	-3834	2933	0.2692
-te-	10.00	20.00	-3784	2954	0.2679
-te-	10.01	20.01	-3748	2967	0.2670
-pe-	10.00	20.00	-3733	2972	0.2666
-pe-	10.00	20.00	-3718	2978	0.2662
-pe-	10.00	20.00	-3701	2986	0.2658
-pe-	10.00	20.00	-3693	2989	0.2657
-pe-	10.00	20.00	-3685	2989	0.2653
-pe-	10.00	20.01	-3679	2993	0.2652
-pe-	10.00	20.00	-3676	2994	0.2652
-pe-	10.00	20.00	-3678	2993	0.2652

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Setpoint No. 2  
 Setpoint Upper: 10.00 °C  
 Setpoint Lower: 20.00 °C  
 Temperature Upper: 10.00 °C  
 CalibFactor Upper: 0.026313  
 Results Upper: 0.2941 W/mK  
 Temperature Lower: 20.00 °C  
 CalibFactor Lower: 0.025969  
 Results Lower: 0.2363 W/mK  
 Percent Difference: 21.81%

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 [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.27	15.07	-11698	-2161	0.5697
-ne-	4.93	14.95	-7893	1419	0.3748
-te-	4.99	15.00	-6566	1830	0.3377
-te-	4.99	15.00	-5665	2160	0.3143
-te-	5.00	15.00	-5030	2394	0.2979
-te-	5.00	15.00	-4591	2556	0.2866
-te-	5.00	15.01	-4289	2668	0.2788
-te-	5.00	15.01	-4082	2744	0.2734
-te-	5.00	15.01	-3939	2796	0.2697
-te-	5.00	15.01	-3842	2833	0.2673
-te-	5.00	15.01	-3772	2858	0.2654
-te-	5.00	15.01	-3726	2875	0.2642
-pe-	4.99	15.00	-3699	2886	0.2635
-pe-	4.99	15.00	-3672	2895	0.2627

-pe-	4.99	15.00	-3656	2902	0.2624
-pe-	4.99	15.00	-3642	2908	0.2621
-pe-	5.00	15.00	-3633	2911	0.2619
-pe-	5.00	15.00	-3628	2913	0.2618
-pe-	5.00	15.00	-3626	2914	0.2617
-pe-	5.00	15.01	-3623	2916	0.2617
-pe-	5.00	15.01	-3619	2916	0.2615
-pe-	5.00	15.01	-3621	2915	0.2615

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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: 0.2928 W/mK  
Temperature Lower: 15.01 °C  
CalibFactor Lower: 0.026002  
Results Lower: 0.2304 W/mK  
Percent Difference: 23.86%

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	0.2941	0.2428	0.2684
15.00	0.2941	0.2363	0.2652
10.00	0.2928	0.2304	0.2616