

Tuesday, November 16, 2021, Time 10:49

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE_OSa.50.50.0#1

Thickness: 29.15mm

Rear Left : 29.08 mm

Rear Right : 29.06 mm

Front Left: 29.24 mm

Front Right: 29.21 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: 84 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	16.18	24.63	-10009	5296	0.6855
-ne-	14.98	25.05	-6929	3766	0.4024
-te-	15.00	25.01	-5990	4182	0.3850
-te-	15.01	25.02	-5619	4475	0.3818
-te-	15.01	25.02	-5386	4642	0.3792
-te-	15.01	25.02	-5240	4748	0.3777
-te-	15.01	25.02	-5152	4814	0.3769
-te-	15.00	25.01	-5100	4850	0.3763
-te-	15.01	25.01	-5067	4874	0.3760
-pe-	15.00	25.01	-5052	4885	0.3757
-pe-	15.00	25.01	-5039	4894	0.3756
-pe-	15.00	25.01	-5029	4900	0.3755
-pe-	15.00	25.01	-5023	4903	0.3754
-pe-	15.00	25.01	-5021	4905	0.3754
-pe-	15.01	25.02	-5021	4903	0.3753
-pe-	15.01	25.02	-5021	4902	0.3753
-pe-	15.01	25.02	-5019	4901	0.3752
-pe-	15.01	25.02	-5019	4900	0.3751
-pe-	15.01	25.02	-5018	4898	0.3750
-pe-	15.01	25.02	-5022	4894	0.3750

Tuesday, November 16, 2021, Time 12:14

Setpoint No. 1

Setpoint Upper: 15.00 °C

Setpoint Lower: 25.00 °C

Temperature Upper: 15.01 °C

CalibFactor Upper: 0.026016

Results Upper: 0.3803 W/mK

Temperature Lower: 25.02 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3698 W/mK

Percent Difference: 2.79%

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-	10.43	20.27	-13010	-2819	0.6145
-ne-	9.86	19.82	-8954	1615	0.4062
-te-	9.99	19.98	-7319	2999	0.3947
-te-	9.99	19.99	-6489	3608	0.3854
-te-	9.99	19.99	-5951	4026	0.3806
-te-	10.00	20.00	-5604	4299	0.3776
-te-	10.00	20.00	-5385	4475	0.3759
-te-	10.00	20.00	-5244	4587	0.3747
-te-	10.00	20.00	-5154	4661	0.3740
-te-	10.00	20.00	-5093	4710	0.3735
-te-	10.00	20.00	-5054	4742	0.3732
-pe-	10.00	20.00	-5038	4756	0.3732
-pe-	10.00	20.00	-5016	4776	0.3730
-pe-	10.00	20.00	-5003	4788	0.3730
-pe-	10.00	20.01	-4996	4793	0.3730
-pe-	10.00	20.00	-4996	4796	0.3730
-pe-	10.00	20.00	-4990	4800	0.3730
-pe-	10.00	20.00	-4989	4801	0.3730
-pe-	10.00	20.00	-4989	4803	0.3731
-pe-	10.00	20.00	-4986	4805	0.3730
-pe-	10.00	20.00	-4987	4804	0.3730

Tuesday, November 16, 2021, Time 13:43

Setpoint No. 2
Setpoint Upper: 10.00 °C
Setpoint Lower: 20.00 °C
Temperature Upper: 10.00 °C
CalibFactor Upper: 0.026312
Results Upper: 0.3824 W/mK
Temperature Lower: 20.00 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3636 W/mK
Percent Difference: 5.06%

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-	5.47	15.32	-12640	-2749	0.6029
-ne-	4.85	14.82	-8791	1553	0.4009
-te-	4.99	14.98	-7186	2903	0.3891
-te-	4.99	15.00	-6381	3500	0.3799
-te-	4.99	15.00	-5856	3909	0.3750
-te-	5.00	15.00	-5514	4182	0.3722
-te-	5.00	15.00	-5296	4359	0.3704
-te-	5.00	15.01	-5157	4470	0.3691
-te-	5.00	15.00	-5071	4540	0.3685
-te-	5.00	15.00	-5009	4591	0.3681
-te-	5.00	15.00	-4971	4625	0.3679
-pe-	5.00	15.00	-4953	4639	0.3676
-pe-	5.00	15.00	-4931	4658	0.3675
-pe-	5.00	15.00	-4918	4669	0.3674
-pe-	5.00	15.00	-4907	4677	0.3673
-pe-	5.00	15.01	-4899	4683	0.3672
-pe-	5.00	15.01	-4896	4684	0.3671
-pe-	5.00	15.01	-4892	4687	0.3671
-pe-	5.00	15.01	-4891	4685	0.3669
-pe-	5.00	15.01	-4892	4684	0.3670

Setpoint No. 3
 Setpoint Upper: 5.00 °C
 Setpoint Lower: 15.00 °C
 Temperature Upper: 5.00 °C
 CalibFactor Upper: 0.026610
 Results Upper: 0.3792 W/mK
 Temperature Lower: 15.01 °C
 CalibFactor Lower: 0.026002
 Results Lower: 0.3549 W/mK
 Percent Difference: 6.62%

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	0.3803	0.3698	0.3750
15.00	0.3824	0.3636	0.3730
10.00	0.3792	0.3549	0.3670