

Wednesday, June 08, 2022, Time 14:56

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: w1s3-20220608

Thickness: 28.51mm

Rear Left : 28.57 mm

Rear Right : 28.40 mm

Front Left: 28.63 mm

Front Right: 28.45 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: 89 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	16.11	24.58	-13666	1783	0.6752
-ne-	14.99	24.97	-9006	1943	0.4069
-te-	15.00	25.01	-7468	3199	0.3949
-te-	15.00	25.01	-6654	4021	0.3952
-te-	15.00	25.01	-6133	4544	0.3952
-te-	15.00	25.01	-5812	4876	0.3955
-te-	15.01	25.01	-5609	5075	0.3953
-te-	15.00	25.01	-5481	5207	0.3954
-te-	15.00	25.01	-5404	5282	0.3954
-te-	15.00	25.01	-5358	5330	0.3954
-pe-	15.00	25.01	-5340	5349	0.3955
-pe-	15.00	25.01	-5316	5370	0.3954
-pe-	15.00	25.01	-5295	5392	0.3954
-pe-	15.00	25.01	-5288	5403	0.3956
-pe-	15.00	25.01	-5284	5409	0.3956
-pe-	15.00	25.01	-5282	5411	0.3956
-pe-	15.01	25.01	-5281	5411	0.3956
-pe-	15.00	25.01	-5277	5418	0.3957
-pe-	15.00	25.01	-5276	5415	0.3956
-pe-	15.00	25.01	-5273	5416	0.3954
-pe-	15.01	25.02	-5275	5417	0.3956

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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: 0.3909 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.4001 W/mK

Percent Difference: 2.33%

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: 67 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.22	20.06	-13082	-3479	0.6293
-te-	9.99	20.00	-8639	1734	0.3881
-te-	10.00	20.00	-7348	3012	0.3870
-te-	10.00	20.00	-6532	3841	0.3871
-te-	10.00	20.01	-6024	4378	0.3879
-te-	10.00	20.00	-5697	4709	0.3880
-te-	10.00	20.00	-5492	4924	0.3882
-te-	10.00	20.00	-5362	5053	0.3881
-te-	10.00	20.01	-5279	5141	0.3883
-te-	10.00	20.00	-5234	5189	0.3883
-pe-	10.00	20.00	-5207	5215	0.3882
-pe-	10.00	20.00	-5182	5234	0.3881
-pe-	10.00	20.00	-5169	5252	0.3883
-pe-	10.00	20.00	-5162	5258	0.3882
-pe-	10.00	20.00	-5154	5268	0.3883
-pe-	10.00	20.01	-5155	5268	0.3883

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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: 0.3868 W/mK
Temperature Lower: 20.00 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3898 W/mK
Percent Difference: 0.76%

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-	5.30	15.09	-12658	-3414	0.6192
-ne-	4.94	14.94	-8510	1585	0.3814
-te-	4.99	15.00	-7172	2900	0.3793
-te-	5.00	15.00	-6372	3725	0.3796
-te-	5.00	15.00	-5873	4250	0.3801
-te-	5.00	15.00	-5557	4584	0.3806
-te-	5.00	15.00	-5358	4794	0.3808
-te-	5.00	15.01	-5235	4921	0.3808
-te-	5.00	15.00	-5152	5007	0.3809
-te-	5.00	15.01	-5103	5058	0.3809
-te-	5.00	15.01	-5075	5084	0.3808
-pe-	5.00	15.00	-5061	5100	0.3809
-pe-	5.00	15.00	-5047	5114	0.3809
-pe-	5.00	15.00	-5038	5124	0.3808
-pe-	5.00	15.00	-5030	5132	0.3808
-pe-	5.00	15.00	-5028	5132	0.3808
-pe-	5.00	15.00	-5028	5134	0.3809
-pe-	5.00	15.00	-5027	5136	0.3809
-pe-	5.00	15.01	-5027	5135	0.3808
-pe-	5.00	15.01	-5026	5136	0.3808
-pe-	5.00	15.00	-5024	5137	0.3808
-pe-	5.00	15.01	-5026	5134	0.3808

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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: 0.3811 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026003
Results Lower: 0.3806 W/mK
Percent Difference: 0.14%

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	0.3909	0.4001	0.3955
15.00	0.3868	0.3898	0.3883
10.00	0.3811	0.3806	0.3808