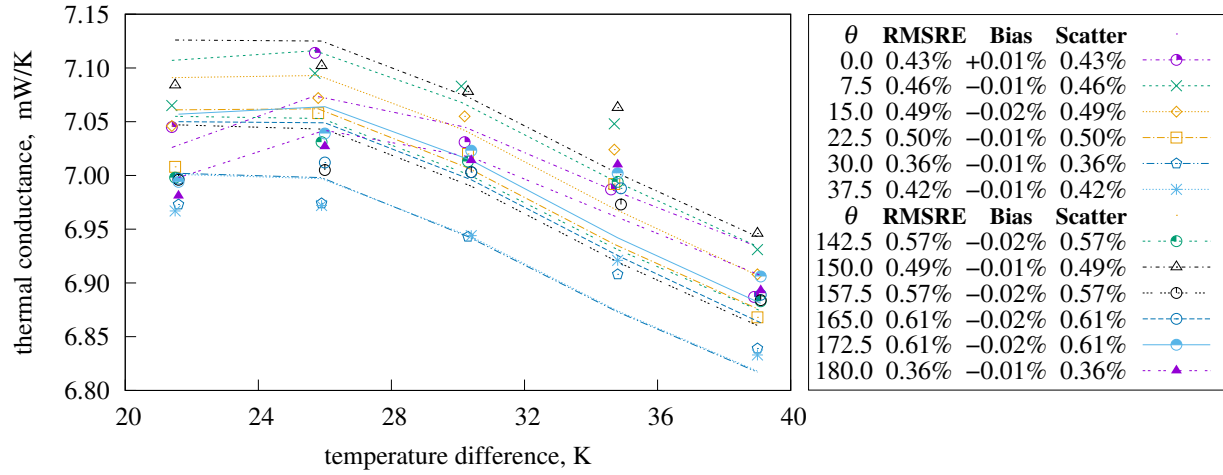
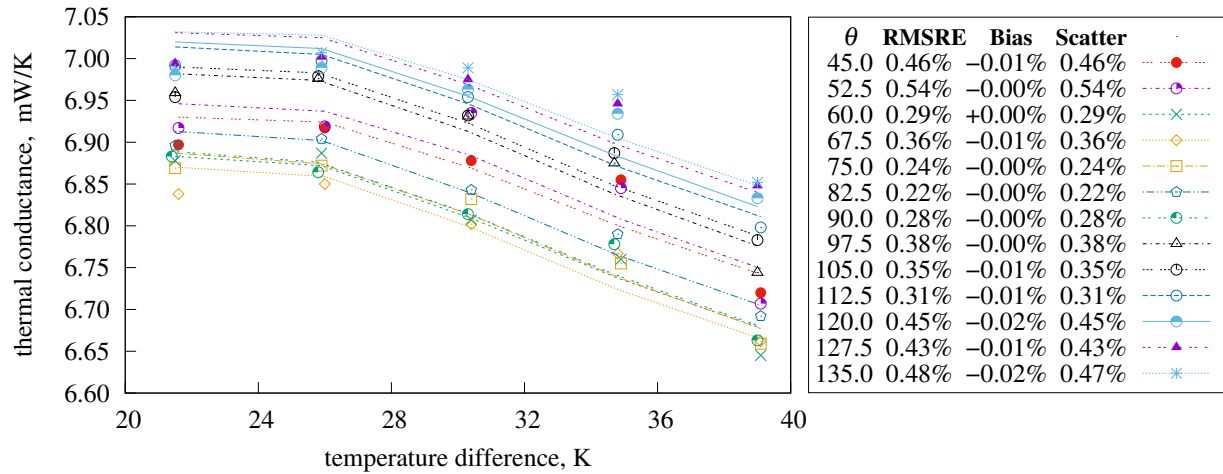


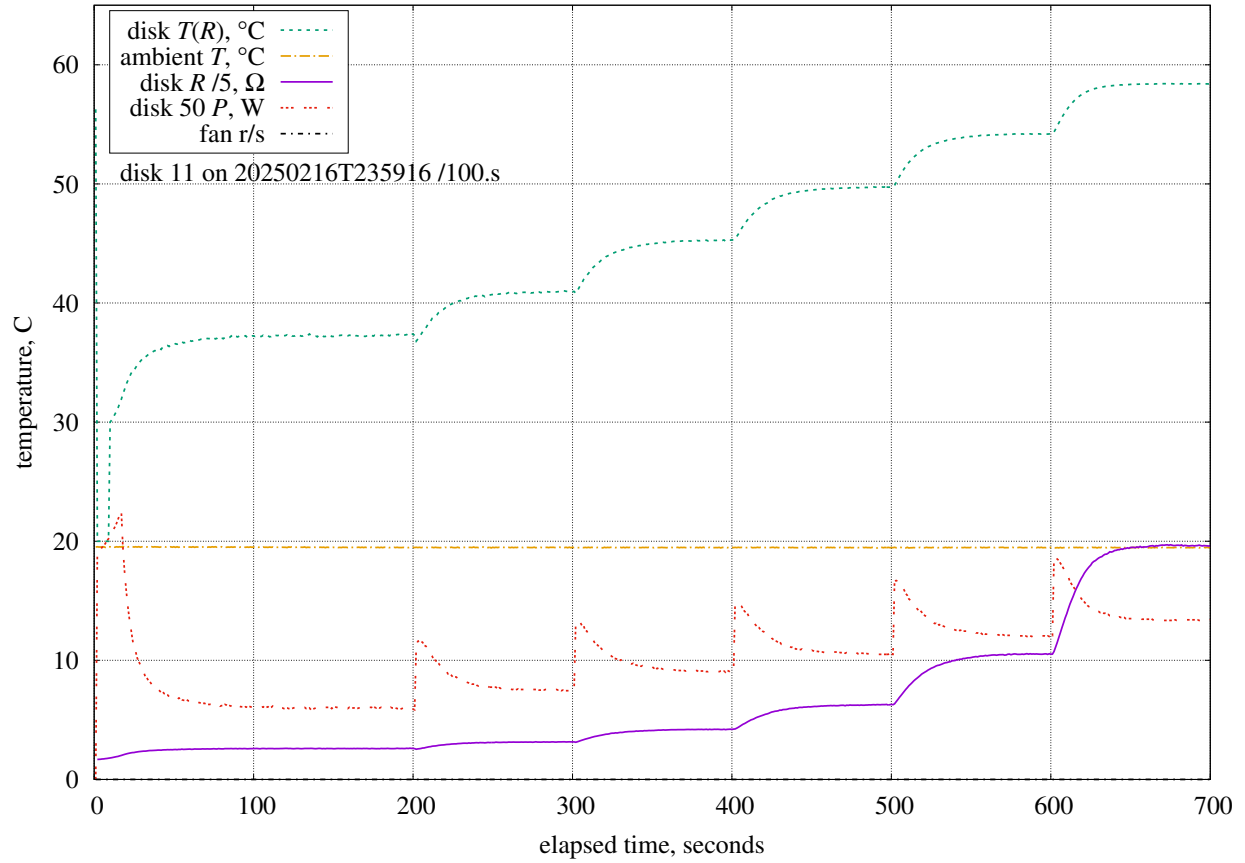
Disk convection versus θ at $\Delta T = 25 \text{ K}$



Disk convection versus $0^\circ \leq \theta < 45^\circ$ and $135^\circ < \theta \leq 180^\circ$



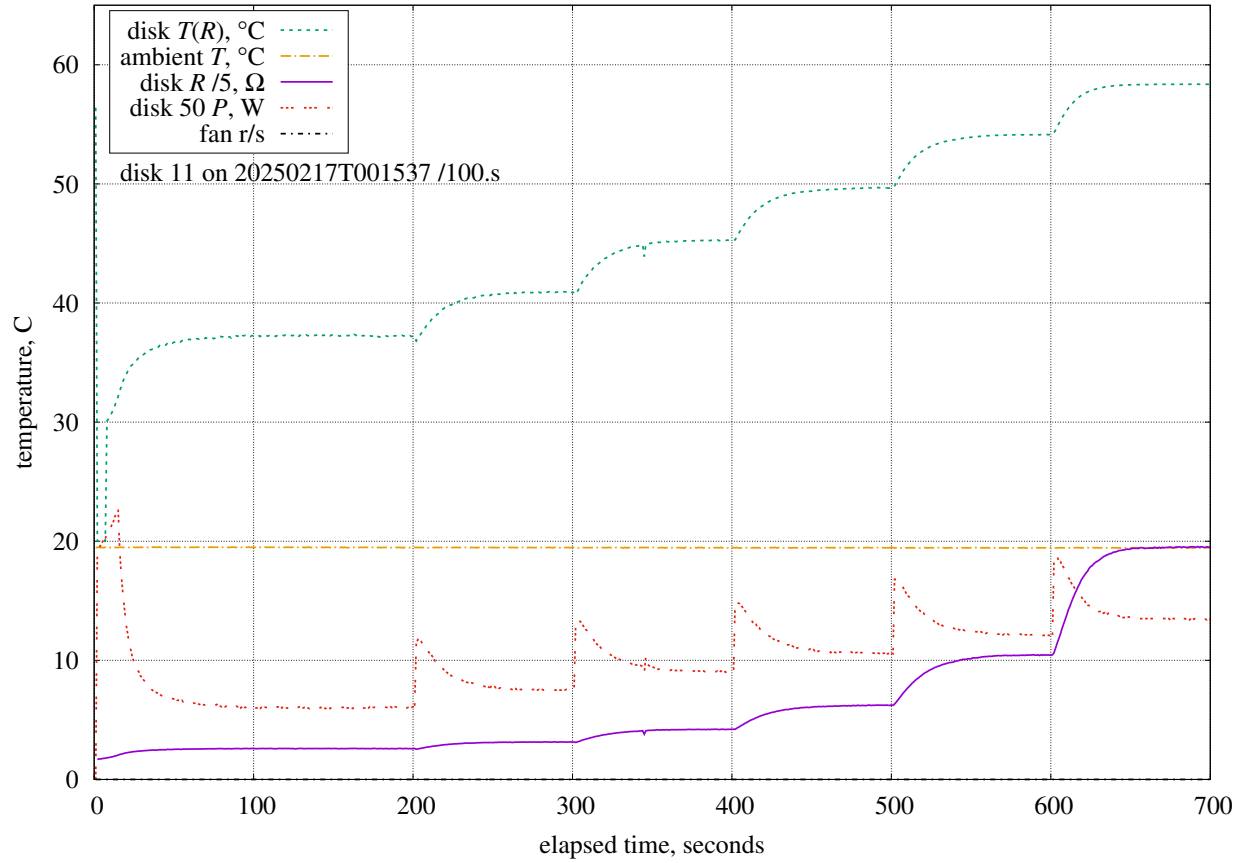
Disk convection versus $45^\circ \leq \theta \leq 135^\circ$



$\theta = 0.0^\circ$; $V = 0.000 \text{ m/s}$ (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 0.0$.

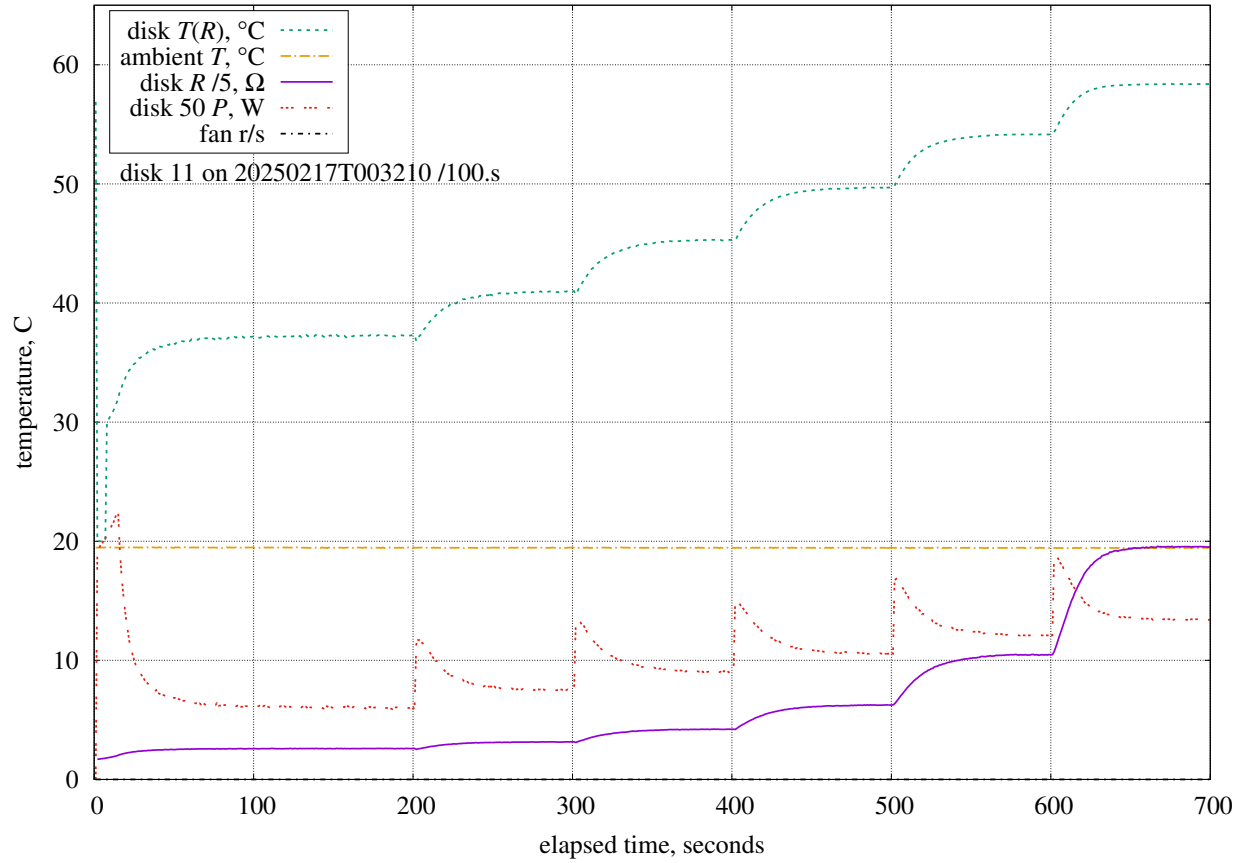
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.31%/K	0.10.K	0.43%	LM35C differential
P	97.0.kPa	+0.0002%/Pa	1.5.kPa	0.27%	MPXH6115A6U air pressure
D_o	2.81.mm	+3157%/m	500.um	1.58%	tube outer diameter
D_i	1.11.mm	+5302%/m	200.um	1.06%	tube inner diameter
L_{wire}	38.0.mm	+1049%/m	500.um	0.52%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.128%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.14%	ABS thermal conductivity
d	12.0.mm	+4535%/m	100.um	0.45%	disk diameter
θ	50.0.m°	+21.4%/°	0.20.°	4.28%	plate angle
				4.90%	combined bias uncertainty



$\theta = 7.5^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 7.6$.

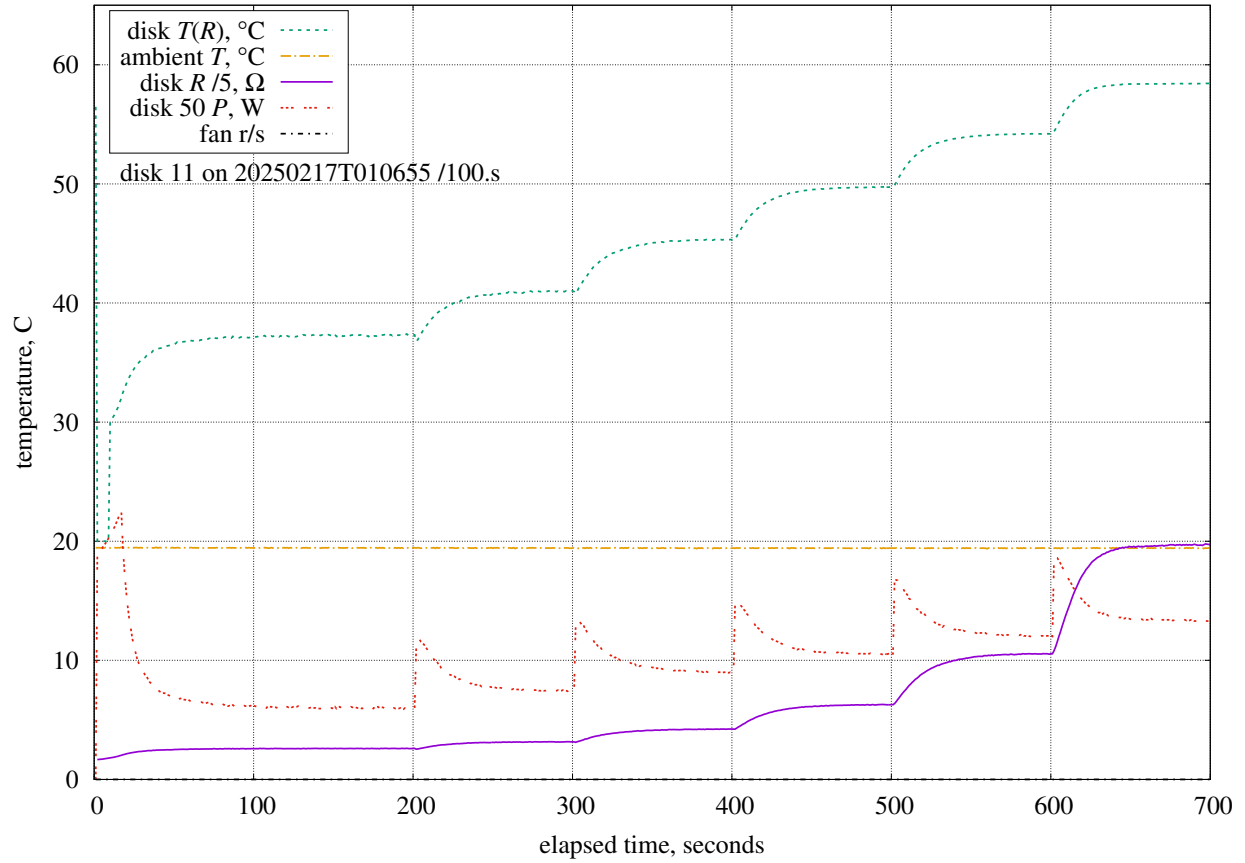
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.22%/K	0.10.K	0.42%	LM35C differential
P	97.0.kPa	+0.0002%/Pa	1.5.kPa	0.23%	MPXH6115A6U air pressure
D_o	2.81.mm	+2368%/m	500.um	1.18%	tube outer diameter
D_i	1.11.mm	+8411%/m	200.um	1.68%	tube inner diameter
D_g	166.um	-330%/m	750.um	0.25%	tube air gap
L_{wire}	38.0.mm	+1374%/m	500.um	0.69%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.162%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.45%	ABS thermal conductivity
d	12.0.mm	+3085%/m	100.um	0.31%	disk diameter
				2.68%	combined bias uncertainty



$\theta = 15.0^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 15.0$.

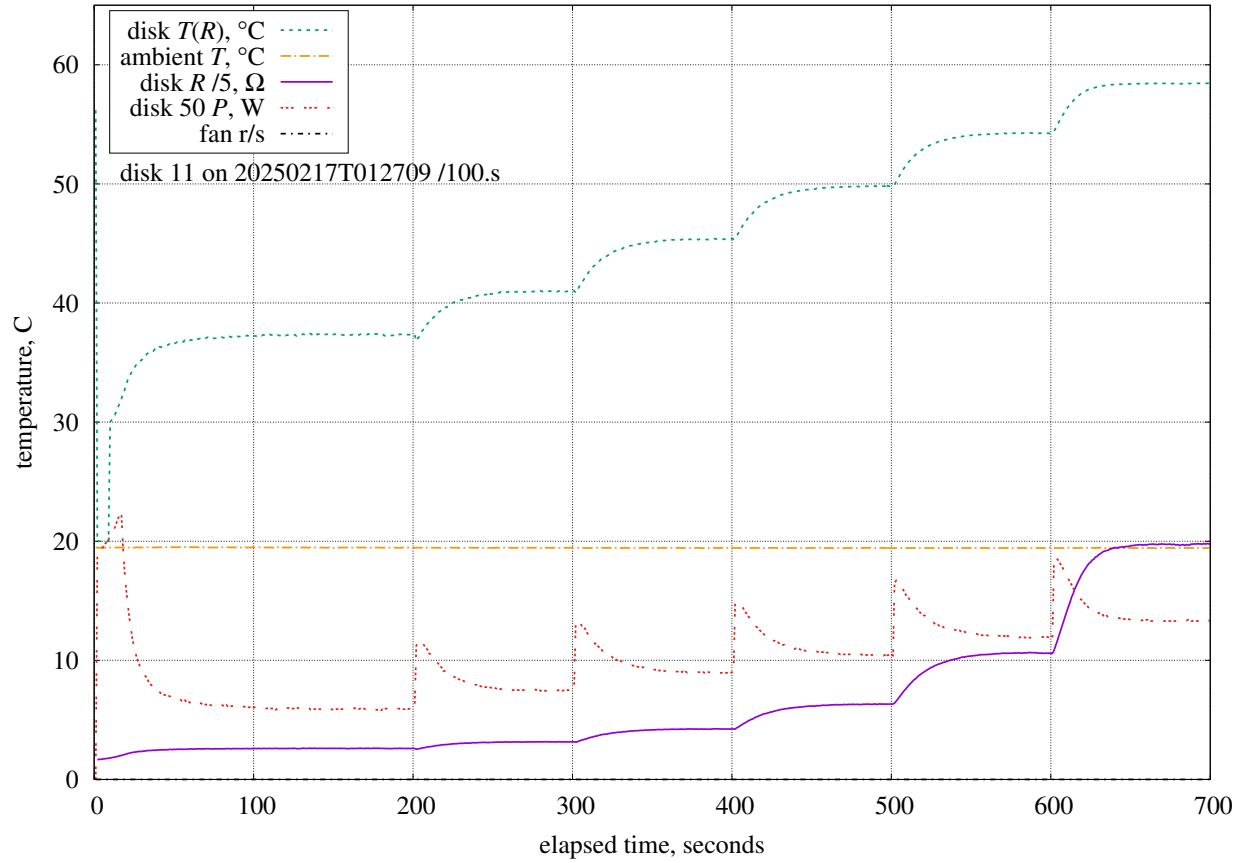
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.20%/K	0.10.K	0.42%	LM35C differential
P	97.0.kPa	+0.0001%/Pa	1.5.kPa	0.21%	MPXH6115A6U air pressure
C_S	0.420	-6.59%	0.050	0.33%	rim shape factor
D_o	2.81.mm	+2126%/m	500.um	1.06%	tube outer diameter
D_i	1.11.mm	+9024%/m	200.um	1.80%	tube inner diameter
D_g	166.um	-342%/m	750.um	0.26%	tube air gap
L_{wire}	38.0.mm	+1426%/m	500.um	0.71%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.167%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.50%	ABS thermal conductivity
d	12.0.mm	+2836%/m	100.um	0.28%	disk diameter
				2.76%	combined bias uncertainty



$\theta = 22.5^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 22.6$.

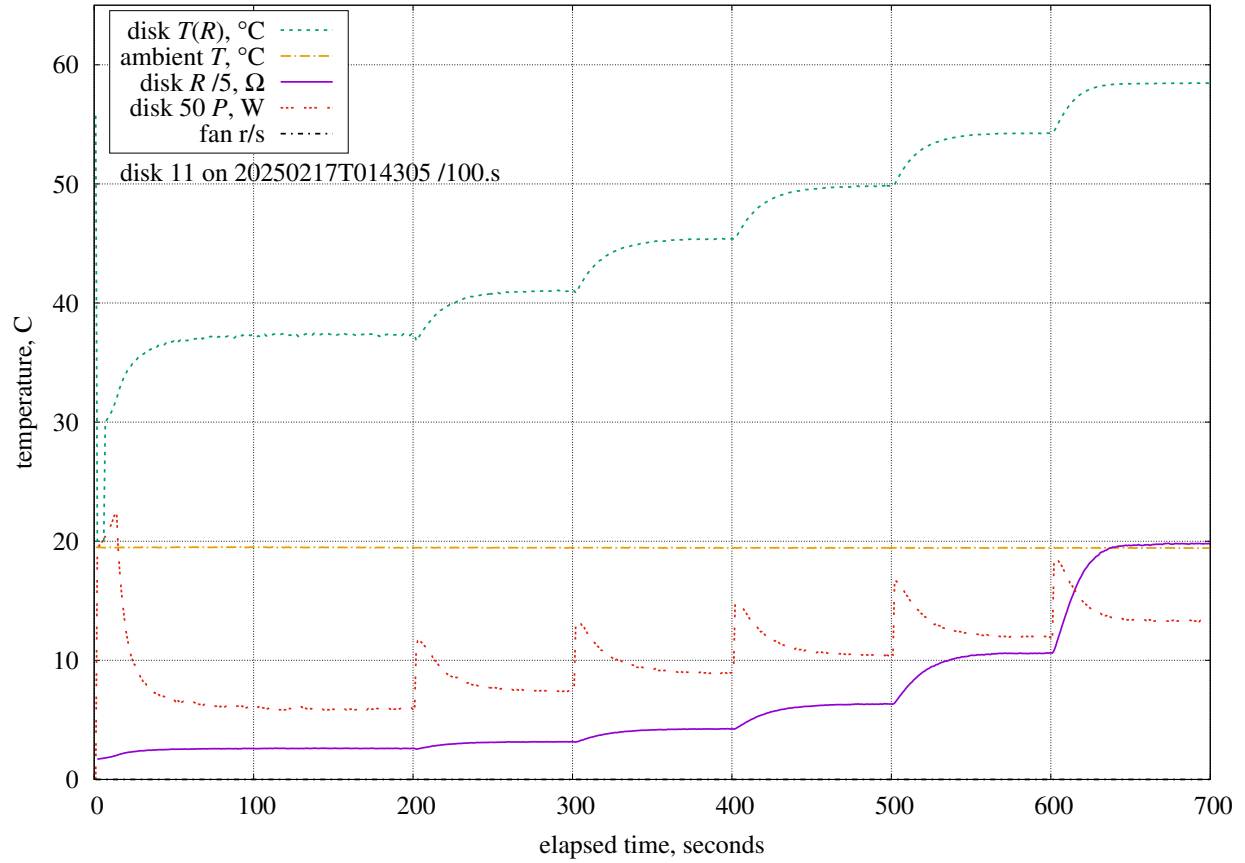
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.20%/K	0.10.K	0.42%	LM35C differential
P	97.0.kPa	+0.0001%/Pa	1.5.kPa	0.21%	MPXH6115A6U air pressure
C_S	0.420	-5.96%	0.050	0.30%	rim shape factor
D_o	2.81.mm	+1973%/m	500.um	0.99%	tube outer diameter
D_i	1.11.mm	+9416%/m	200.um	1.88%	tube inner diameter
D_g	166.um	-350%/m	750.um	0.26%	tube air gap
L_{wire}	38.0.mm	+1460%/m	500.um	0.73%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.171%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.53%	ABS thermal conductivity
d	12.0.mm	+2713%/m	100.um	0.27%	disk diameter
				2.80%	combined bias uncertainty



$\theta = 30.0^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 30.0$.

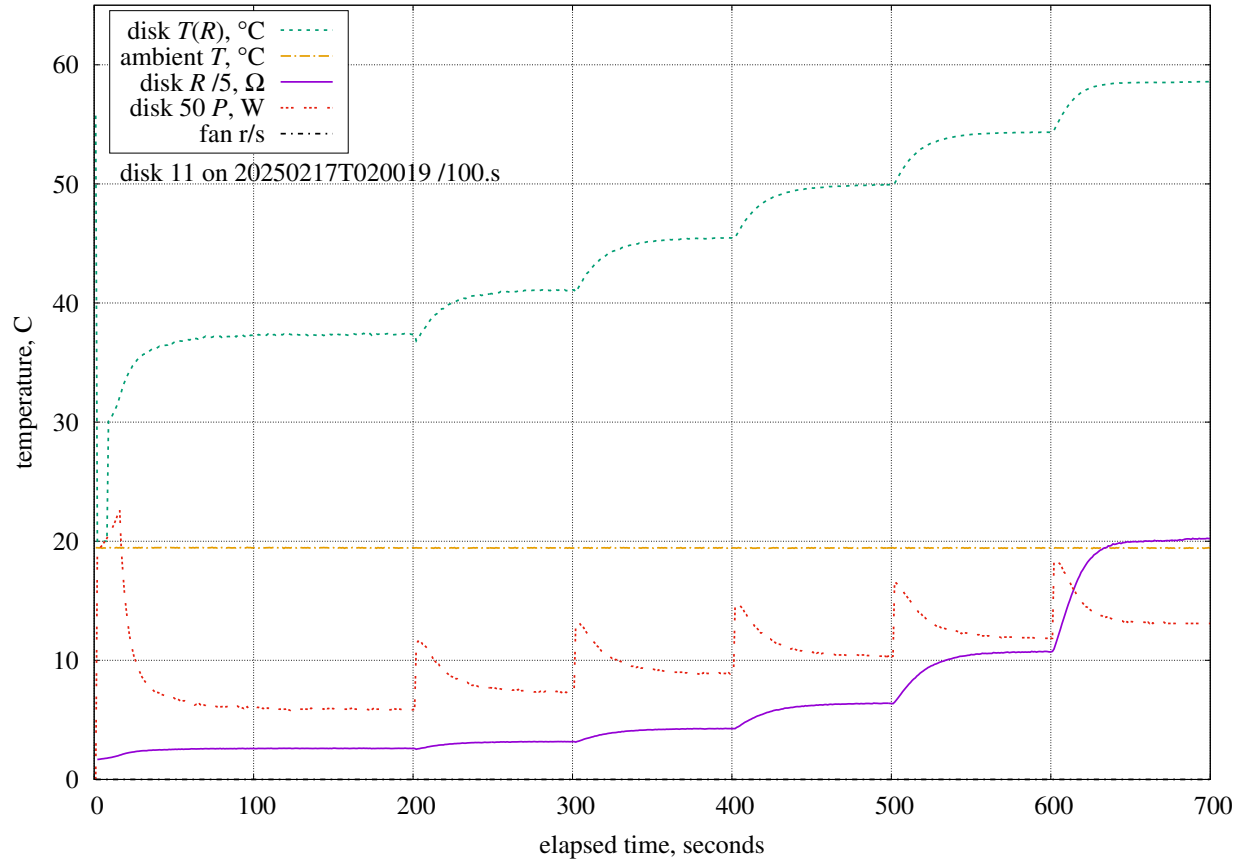
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.19%/K	0.10.K	0.42%	LM35C differential
P	97.0.kPa	+0.0001%/Pa	1.5.kPa	0.20%	MPXH6115A6U air pressure
C_S	0.420	-5.32%	0.050	0.27%	rim shape factor
D_o	2.81.mm	+1877%/m	500.um	0.94%	tube outer diameter
D_i	1.11.mm	+9737%/m	200.um	1.95%	tube inner diameter
D_g	166.um	-357%/m	750.um	0.27%	tube air gap
L_{wire}	38.0.mm	+1486%/m	500.um	0.74%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.174%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.56%	ABS thermal conductivity
d	12.0.mm	+2601%/m	100.um	0.26%	disk diameter
				2.84%	combined bias uncertainty



$\theta = 37.5^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 37.6$.

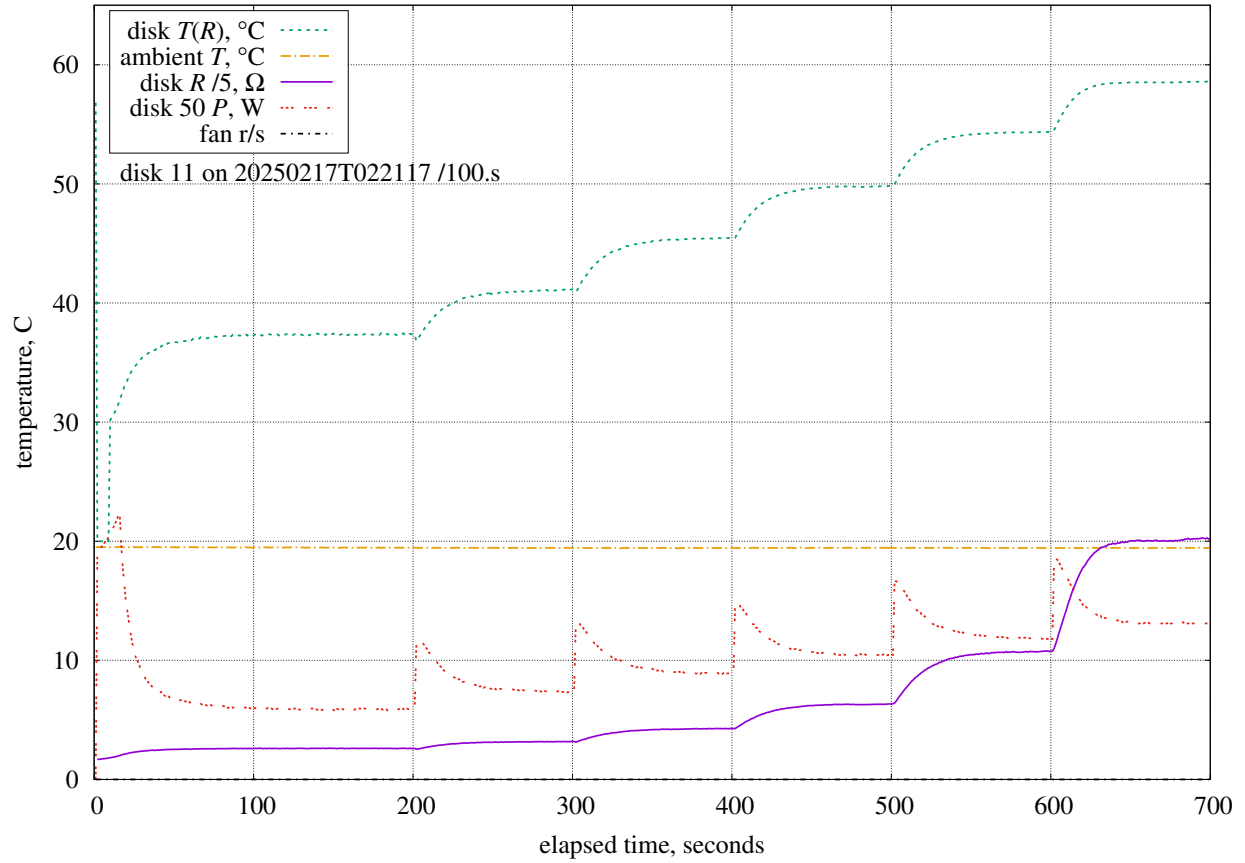
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.19%/K	0.10.K	0.42%	LM35C differential
P	97.1.kPa	+0.0001%/Pa	1.5.kPa	0.20%	MPXH6115A6U air pressure
C_S	0.420	-5.05%	0.050	0.25%	rim shape factor
D_o	2.81.mm	+1783%/m	500.um	0.89%	tube outer diameter
D_i	1.11.mm	+9931%/m	200.um	1.99%	tube inner diameter
D_g	166.um	-360%/m	750.um	0.27%	tube air gap
L_{wire}	38.0.mm	+1502%/m	500.um	0.75%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.176%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.57%	ABS thermal conductivity
d	12.0.mm	+2561%/m	100.um	0.26%	disk diameter
				2.86%	combined bias uncertainty



$\theta = 45.0^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 45.0$.

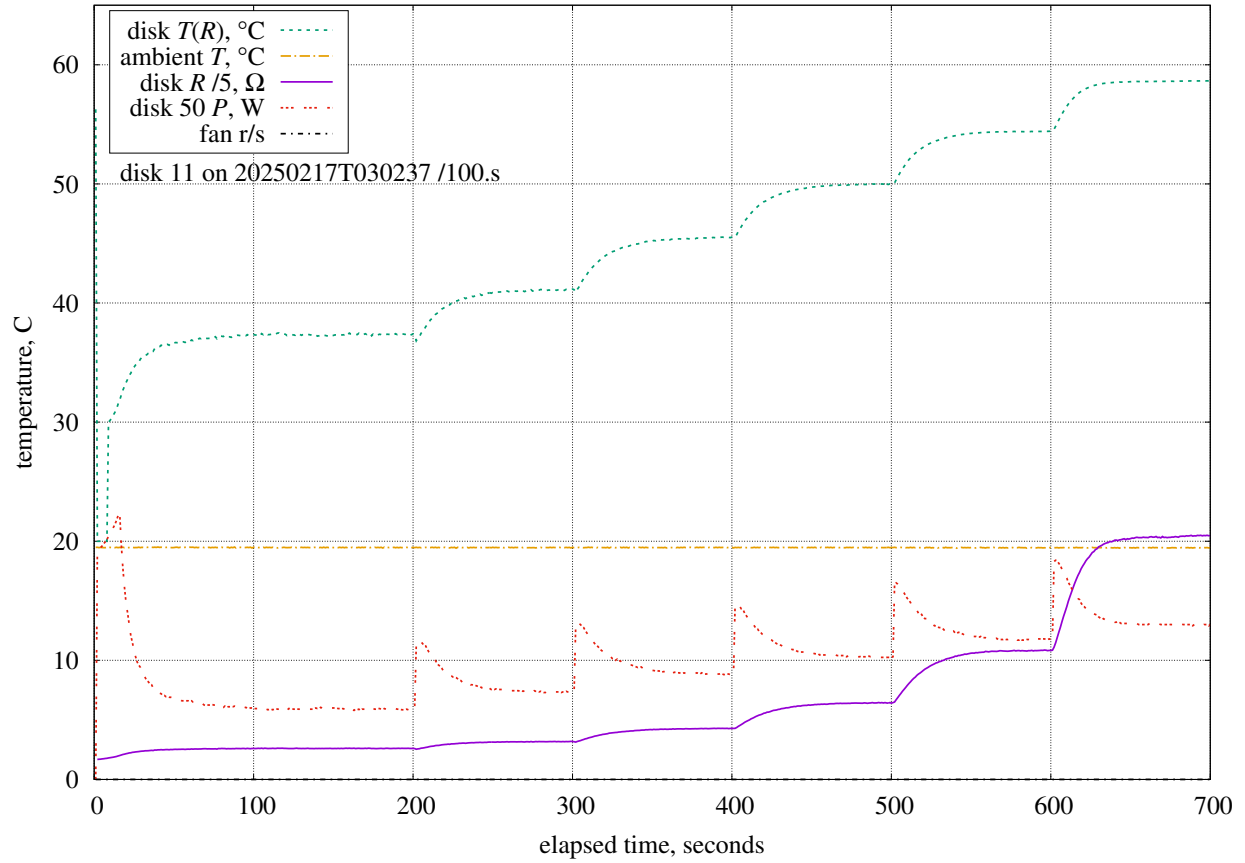
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.18%/K	0.10.K	0.42%	LM35C differential
C_S	0.420	-4.73%	0.050	0.24%	rim shape factor
D_o	2.81.mm	+1730%/m	500.um	0.87%	tube outer diameter
D_i	1.11.mm	+10184%/m	200.um	2.04%	tube inner diameter
D_g	166.um	-366%/m	750.um	0.27%	tube air gap
L_{wire}	38.0.mm	+1527%/m	500.um	0.76%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.179%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.60%	ABS thermal conductivity
d	12.0.mm	+2429%/m	100.um	0.24%	disk diameter
				2.91%	combined bias uncertainty



$\theta = 52.5^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 52.6$.

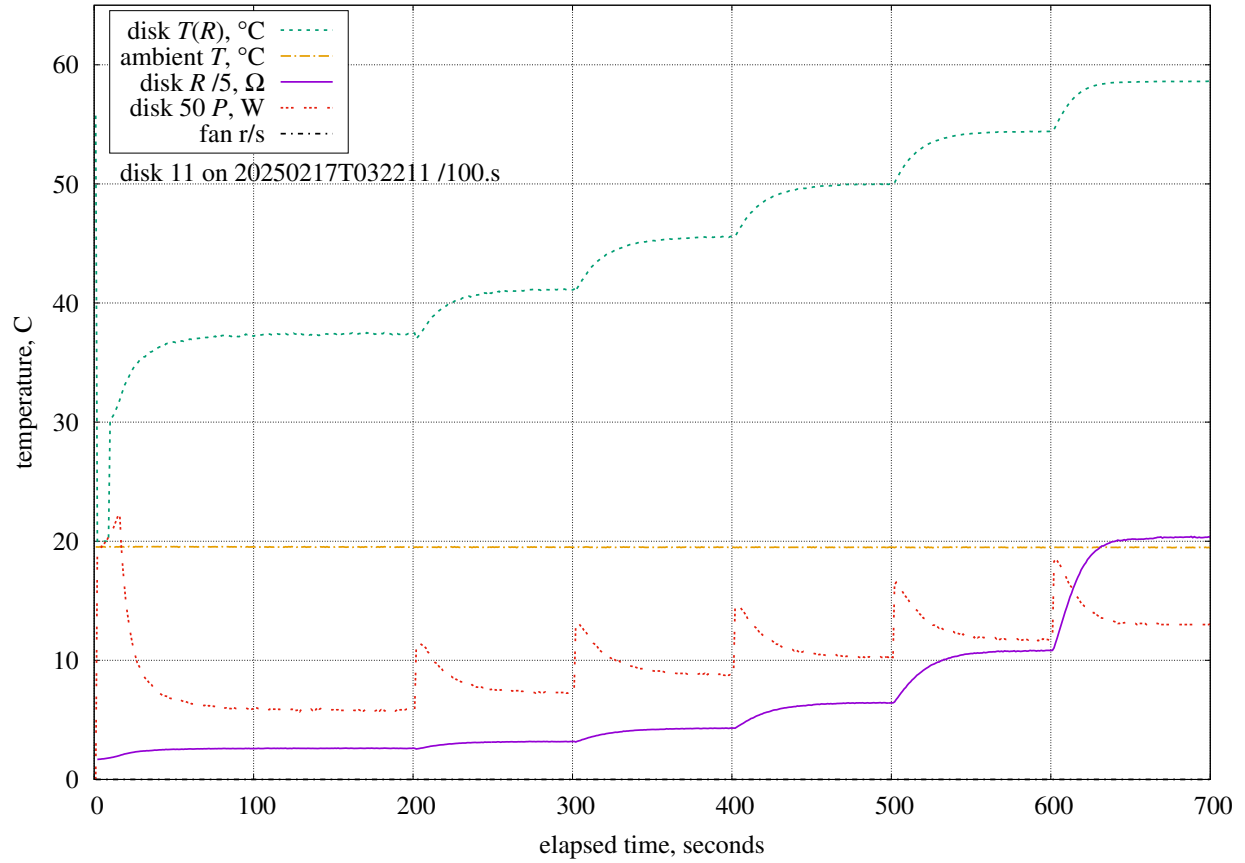
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.18%/K	0.10.K	0.42%	LM35C differential
C_S	0.420	-4.67%	0.050	0.23%	rim shape factor
D_o	2.81.mm	+1667%/m	500.um	0.83%	tube outer diameter
D_i	1.11.mm	+10327%/m	200.um	2.07%	tube inner diameter
D_g	166.um	-370%/m	750.um	0.28%	tube air gap
L_{wire}	38.0.mm	+1542%/m	500.um	0.77%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.180%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.61%	ABS thermal conductivity
d	12.0.mm	+2364%/m	100.um	0.24%	disk diameter
				2.93%	combined bias uncertainty



$\theta = 60.0^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 60.0$.

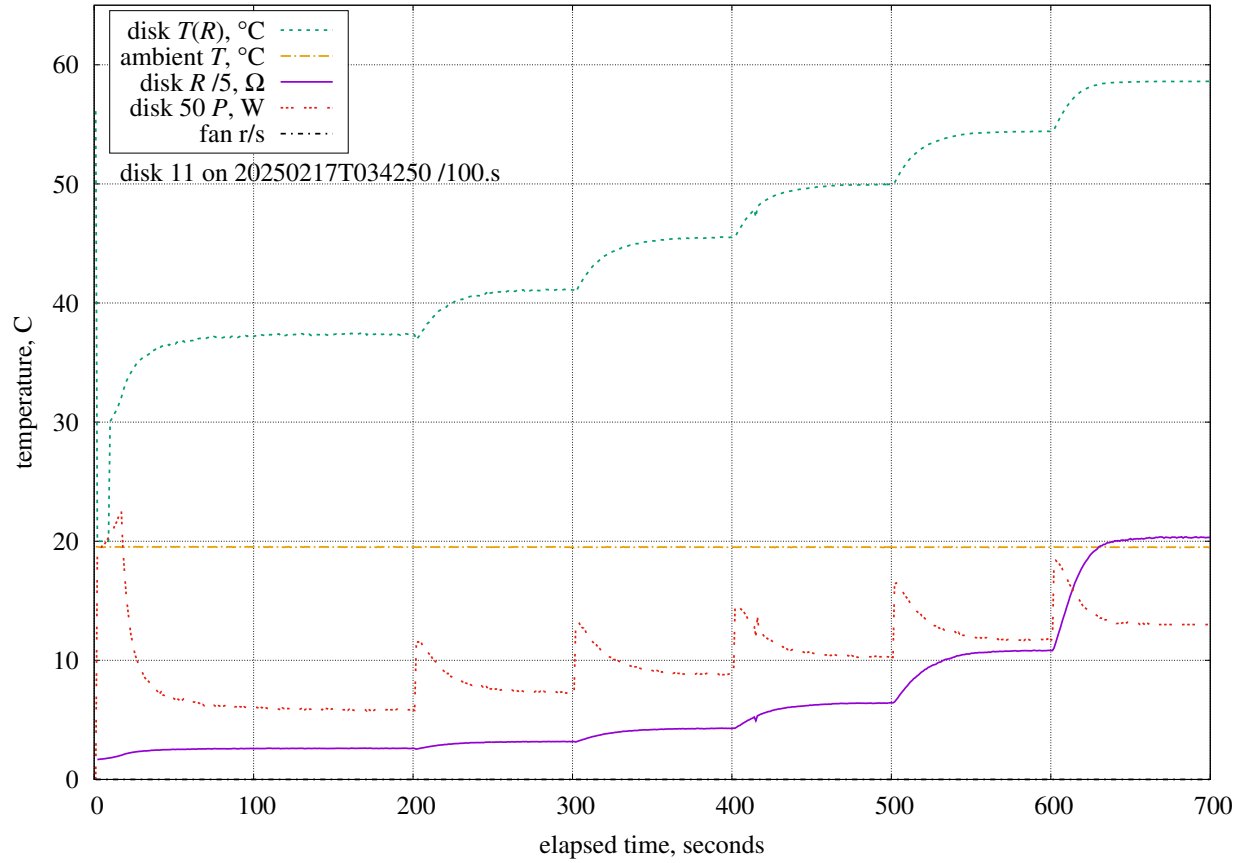
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.17%/K	0.10.K	0.42%	LM35C differential
C_S	0.420	-4.44%	0.050	0.22%	rim shape factor
D_o	2.81.mm	+1637%/m	500.um	0.82%	tube outer diameter
D_i	1.11.mm	+10546%/m	200.um	2.11%	tube inner diameter
D_g	166.um	-376%/m	750.um	0.28%	tube air gap
L_{wire}	38.0.mm	+1567%/m	500.um	0.78%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.183%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.64%	ABS thermal conductivity
d	12.0.mm	+2218%/m	100.um	0.22%	disk diameter
				2.97%	combined bias uncertainty



$\theta = 67.5^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 67.6$.

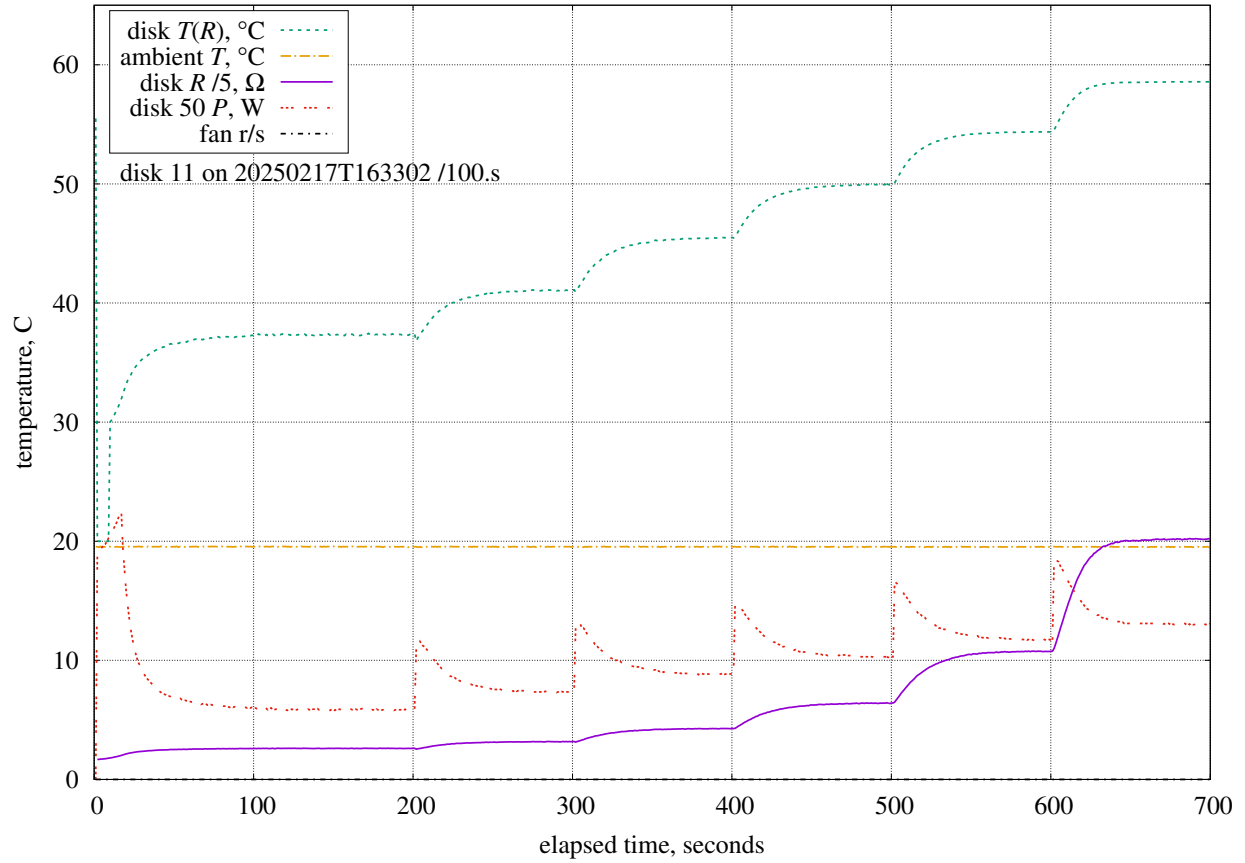
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.17%/K	0.10.K	0.42%	LM35C differential
C_S	0.420	-4.36%	0.050	0.22%	rim shape factor
D_o	2.81.mm	+1598%/m	500.um	0.80%	tube outer diameter
D_i	1.11.mm	+10651%/m	200.um	2.13%	tube inner diameter
D_g	166.um	-379%/m	750.um	0.28%	tube air gap
L_{wire}	38.0.mm	+1578%/m	500.um	0.79%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.185%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.66%	ABS thermal conductivity
d	12.0.mm	+2160%/m	100.um	0.22%	disk diameter
				2.99%	combined bias uncertainty



$\theta = 75.0^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 75.0$.

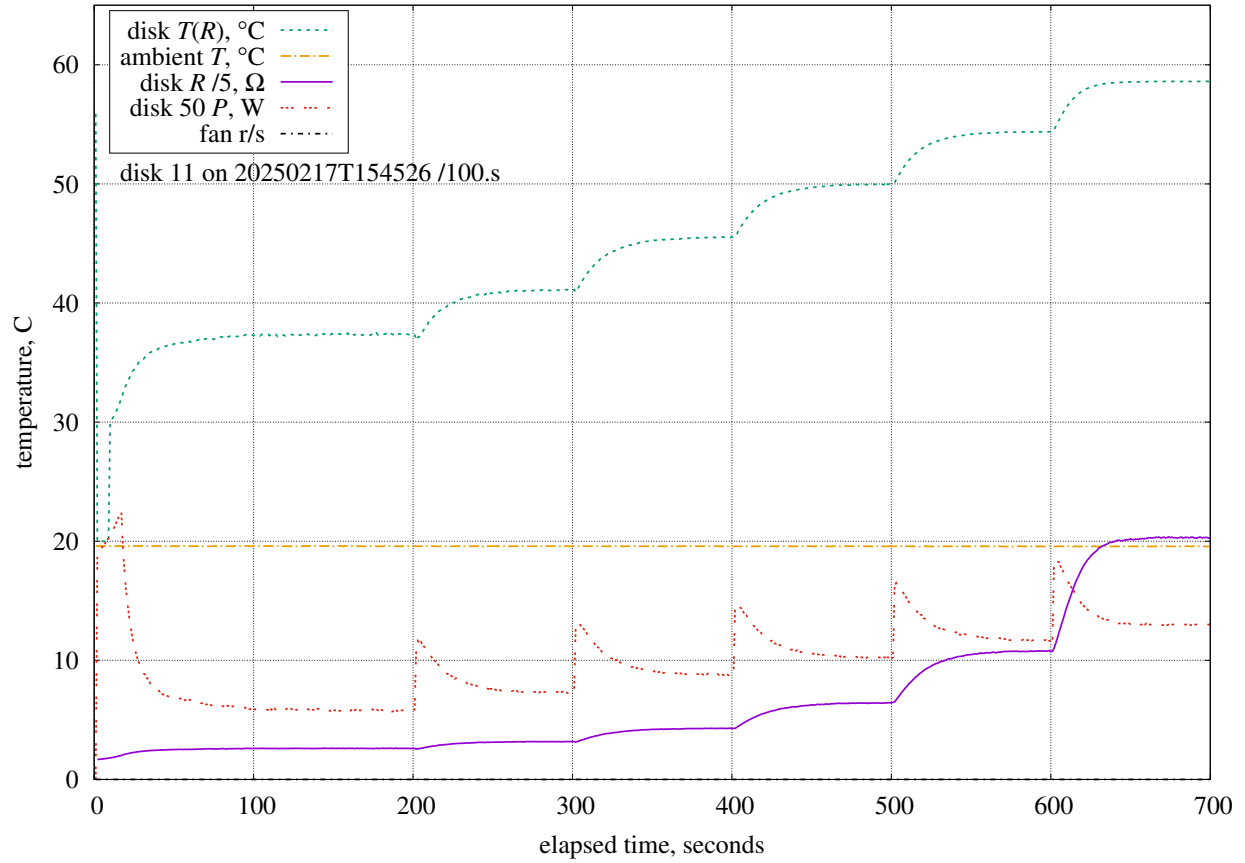
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.17%/K	0.10.K	0.42%	LM35C differential
C_S	0.420	-4.34%	0.050	0.22%	rim shape factor
D_o	2.81.mm	+1543%/m	500.um	0.77%	tube outer diameter
D_i	1.11.mm	+10665%/m	200.um	2.13%	tube inner diameter
D_g	166.um	-379%/m	750.um	0.28%	tube air gap
L_{wire}	38.0.mm	+1581%/m	500.um	0.79%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.185%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.66%	ABS thermal conductivity
d	12.0.mm	+2149%/m	100.um	0.21%	disk diameter
				2.99%	combined bias uncertainty



$\theta = 82.5^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 82.6$.

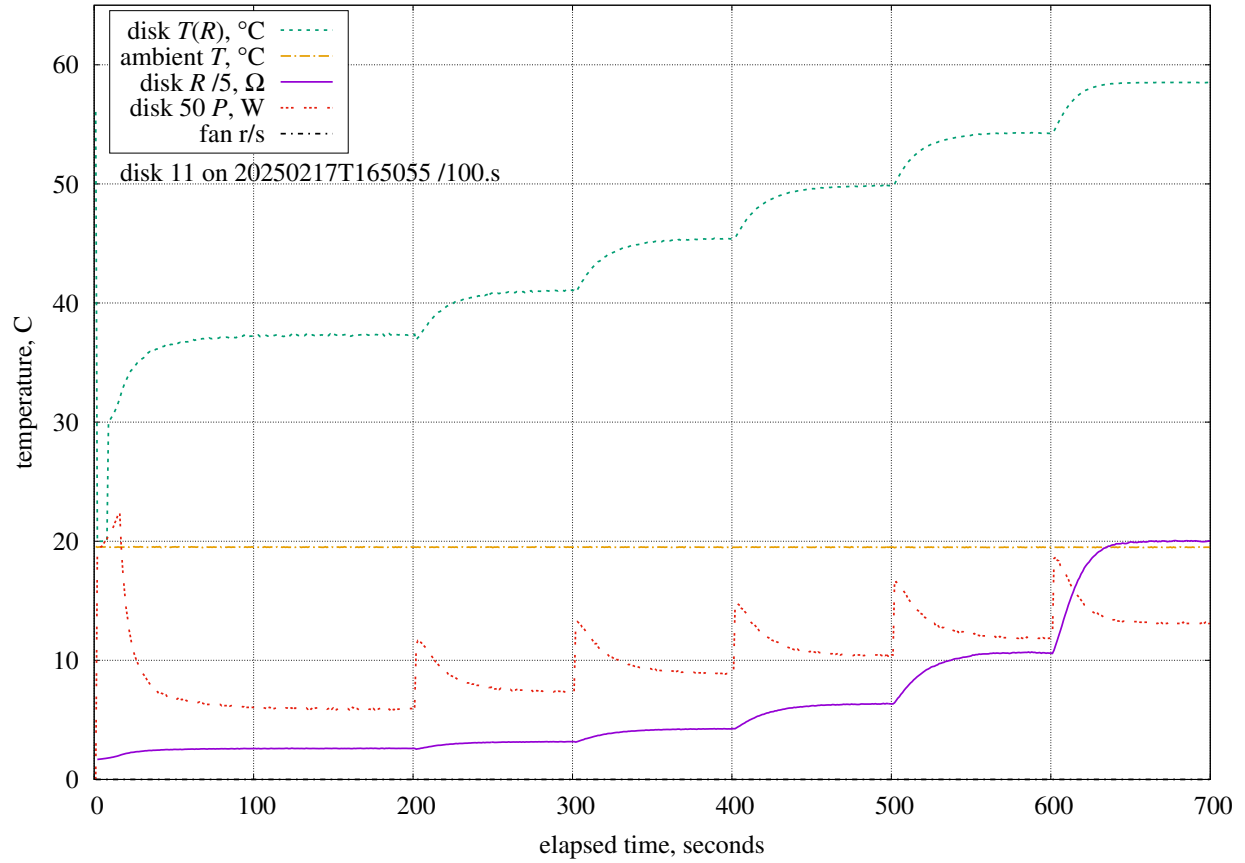
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.17%/K	0.10.K	0.42%	LM35C differential
C_S	0.420	-4.29%	0.050	0.21%	rim shape factor
D_o	2.81.mm	+1462%/m	500.um	0.73%	tube outer diameter
D_i	1.11.mm	+10644%/m	200.um	2.13%	tube inner diameter
D_g	166.um	-379%/m	750.um	0.28%	tube air gap
L_{wire}	38.0.mm	+1580%/m	500.um	0.79%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.185%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.66%	ABS thermal conductivity
d	12.0.mm	+2171%/m	100.um	0.22%	disk diameter
				2.97%	combined bias uncertainty



$\theta = 90.0^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 90.0$.

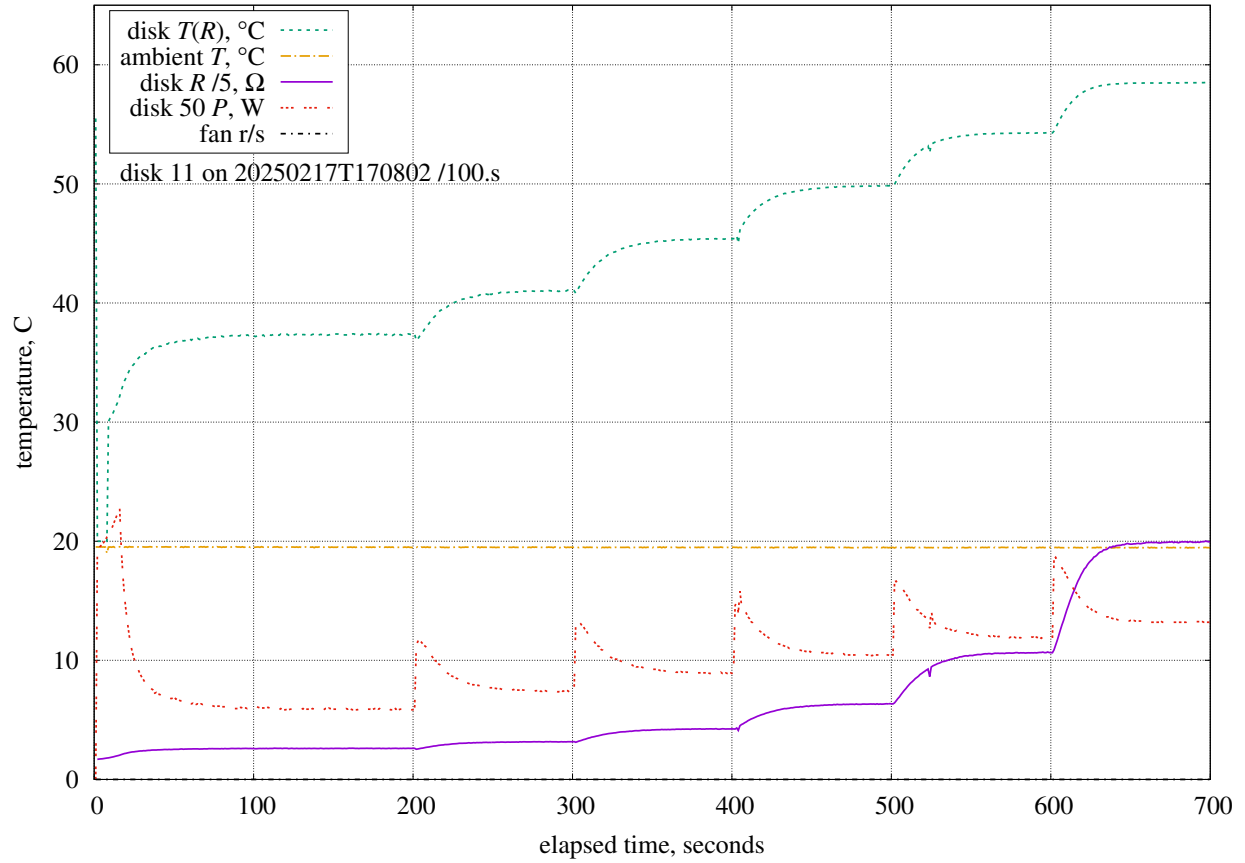
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.17%/K	0.10.K	0.42%	LM35C differential
D_o	2.81.mm	+1280%/m	500.um	0.64%	tube outer diameter
D_i	1.11.mm	+10457%/m	200.um	2.09%	tube inner diameter
D_g	166.um	-376%/m	750.um	0.28%	tube air gap
L_{wire}	38.0.mm	+1568%/m	500.um	0.78%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.185%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.66%	ABS thermal conductivity
d	12.0.mm	+2191%/m	100.um	0.22%	disk diameter
θ	90.0.°	+1.32%/°	0.20.°	0.26%	plate angle
				2.93%	combined bias uncertainty



$\theta = 97.5^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 97.6$.

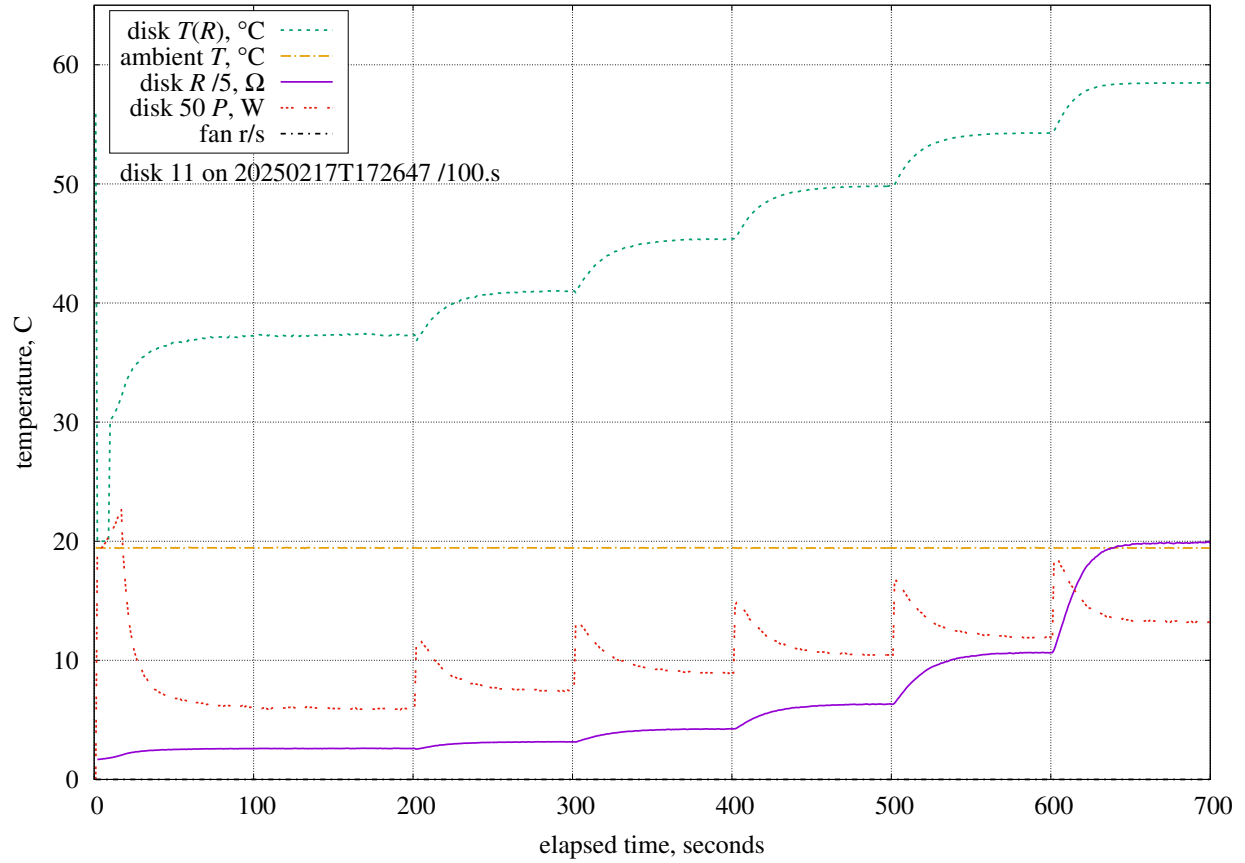
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.17%/K	0.10.K	0.42%	LM35C differential
C_S	0.420	-4.48%	0.050	0.22%	rim shape factor
D_o	2.81.mm	+1437%/m	500.um	0.72%	tube outer diameter
D_i	1.11.mm	+10543%/m	200.um	2.11%	tube inner diameter
D_g	166.um	-377%/m	750.um	0.28%	tube air gap
L_{wire}	38.0.mm	+1569%/m	500.um	0.78%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.184%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.64%	ABS thermal conductivity
d	12.0.mm	+2257%/m	100.um	0.23%	disk diameter
				2.95%	combined bias uncertainty



$\theta = 105.0^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 105.0$.

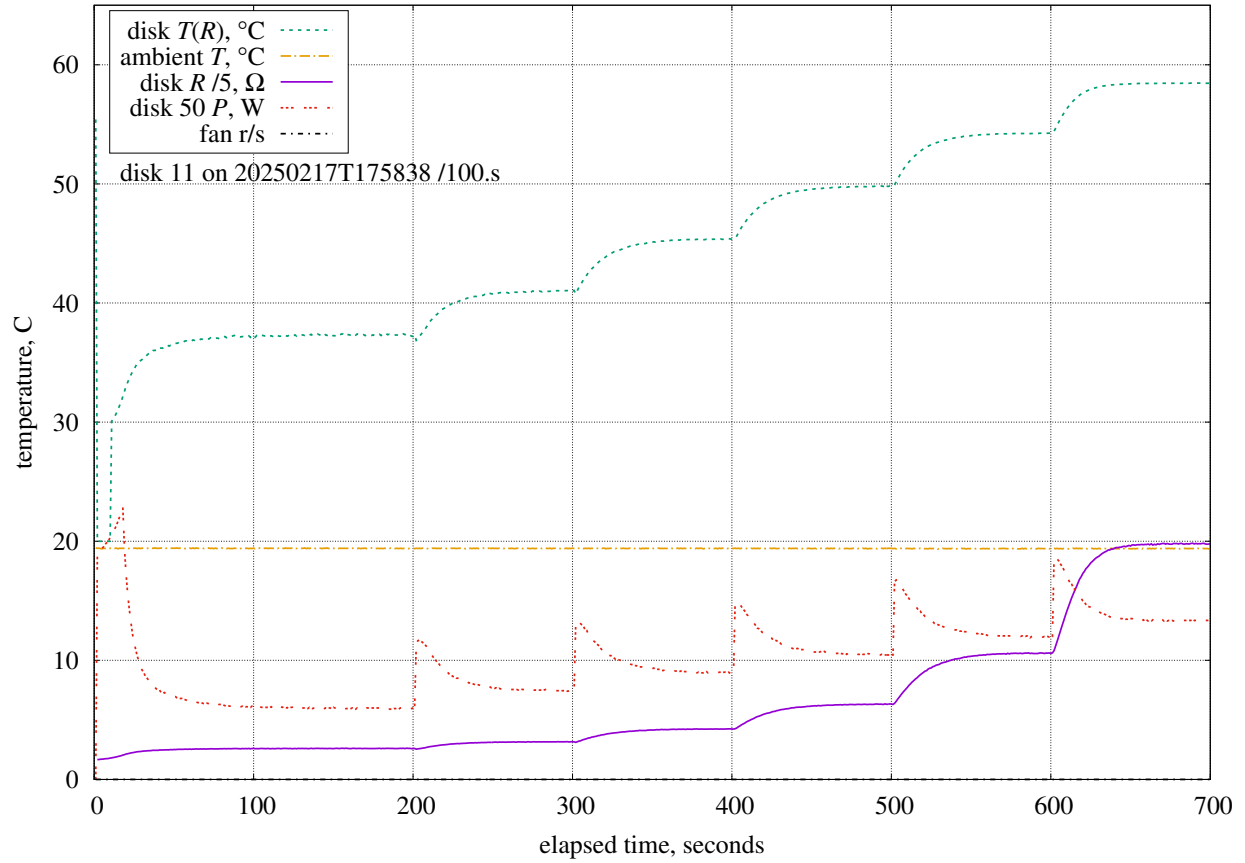
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.18%/K	0.10.K	0.42%	LM35C differential
C_S	0.420	-4.61%	0.050	0.23%	rim shape factor
D_o	2.81.mm	+1493%/m	500.um	0.75%	tube outer diameter
D_i	1.11.mm	+10553%/m	200.um	2.11%	tube inner diameter
D_g	166.um	-376%/m	750.um	0.28%	tube air gap
L_{wire}	38.0.mm	+1567%/m	500.um	0.78%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.183%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.64%	ABS thermal conductivity
d	12.0.mm	+2276%/m	100.um	0.23%	disk diameter
				2.95%	combined bias uncertainty



$\theta = 112.5^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 112.6$.

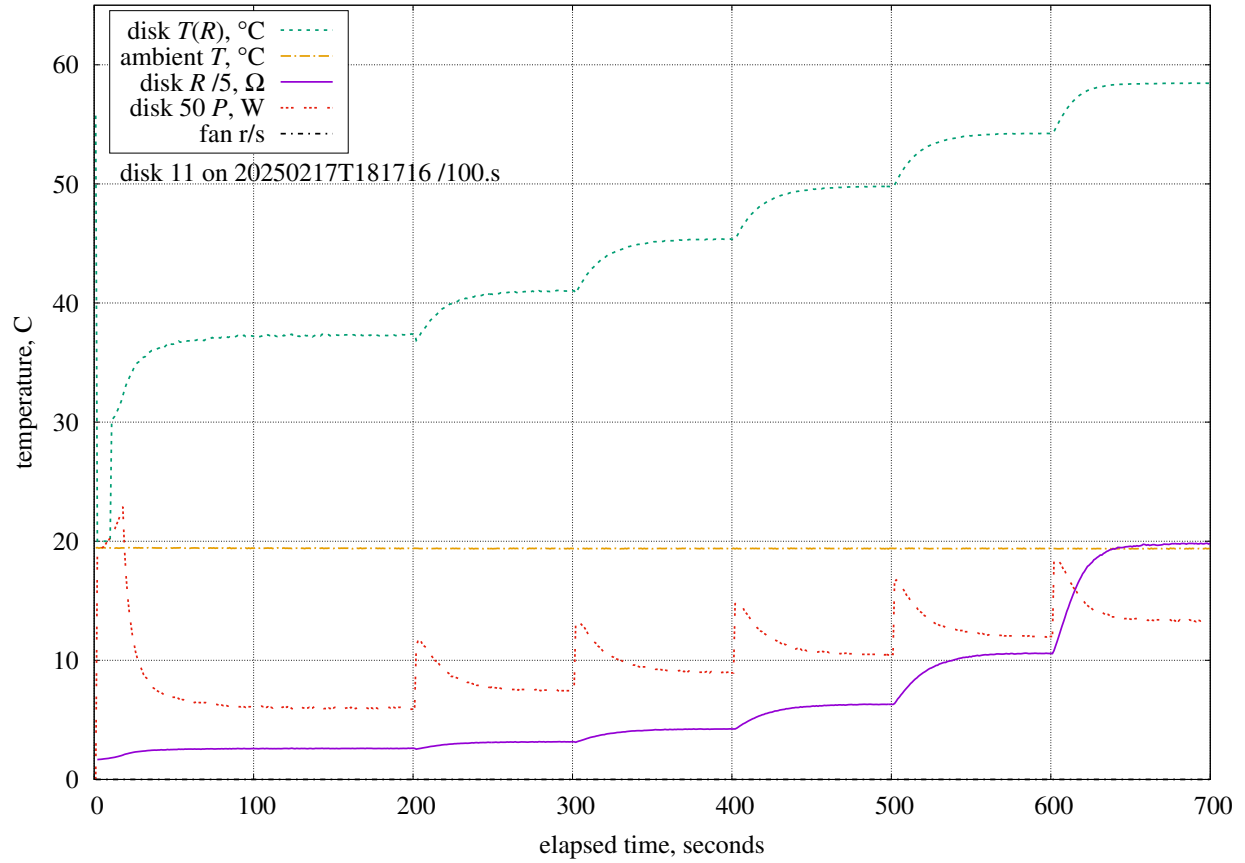
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.18%/K	0.10.K	0.42%	LM35C differential
C_S	0.420	-4.73%	0.050	0.24%	rim shape factor
D_o	2.81.mm	+1532%/m	500.um	0.77%	tube outer diameter
D_i	1.11.mm	+10488%/m	200.um	2.10%	tube inner diameter
D_g	166.um	-374%/m	750.um	0.28%	tube air gap
L_{wire}	38.0.mm	+1559%/m	500.um	0.78%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.182%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.63%	ABS thermal conductivity
d	12.0.mm	+2328%/m	100.um	0.23%	disk diameter
				2.94%	combined bias uncertainty



$\theta = 120.0^\circ$; $V = 0.000 \text{ m/s}$ (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 120.0$.

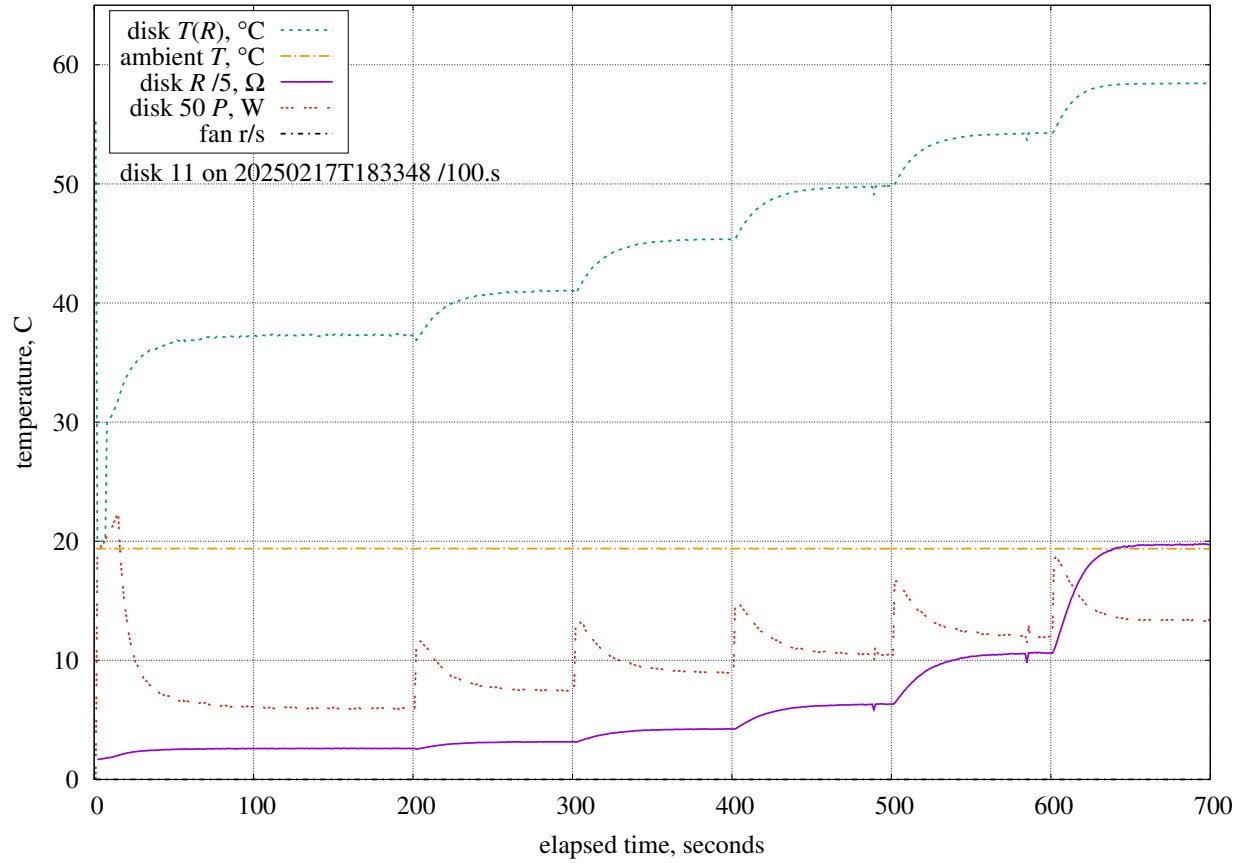
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.18%/K	0.10.K	0.42%	LM35C differential
C_S	0.420	-4.79%	0.050	0.24%	rim shape factor
D_o	2.81.mm	+1576%/m	500.um	0.79%	tube outer diameter
D_i	1.11.mm	+10395%/m	200.um	2.08%	tube inner diameter
D_g	166.um	-372%/m	750.um	0.28%	tube air gap
L_{wire}	38.0.mm	+1548%/m	500.um	0.77%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.181%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.62%	ABS thermal conductivity
d	12.0.mm	+2382%/m	100.um	0.24%	disk diameter
				2.93%	combined bias uncertainty



$\theta = 127.5^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 127.6$.

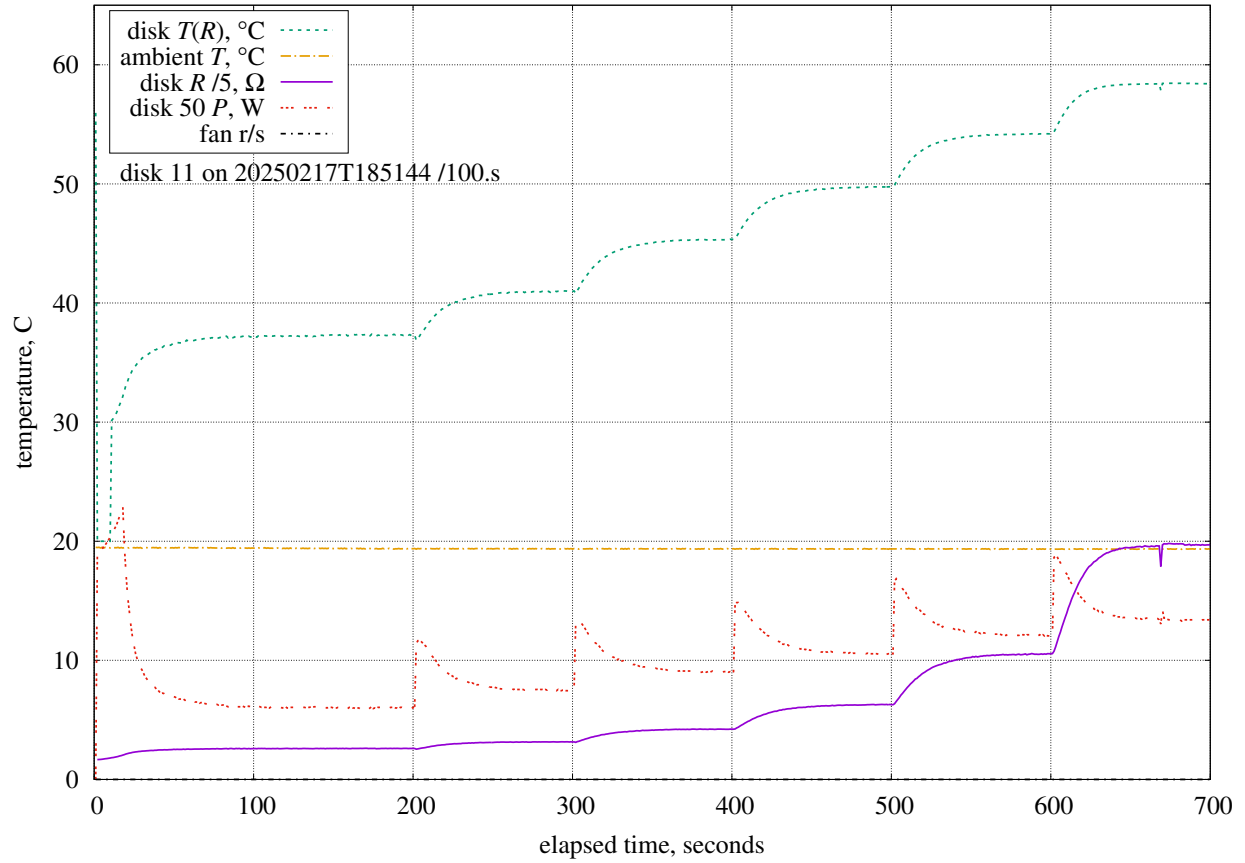
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.18%/K	0.10.K	0.42%	LM35C differential
C_S	0.420	-4.87%	0.050	0.24%	rim shape factor
D_o	2.81.mm	+1620%/m	500.um	0.81%	tube outer diameter
D_i	1.11.mm	+10254%/m	200.um	2.05%	tube inner diameter
D_g	166.um	-368%/m	750.um	0.28%	tube air gap
L_{wire}	38.0.mm	+1533%/m	500.um	0.77%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.179%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.60%	ABS thermal conductivity
d	12.0.mm	+2459%/m	100.um	0.25%	disk diameter
				2.90%	combined bias uncertainty



$\theta = 135.0^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 135.0$.

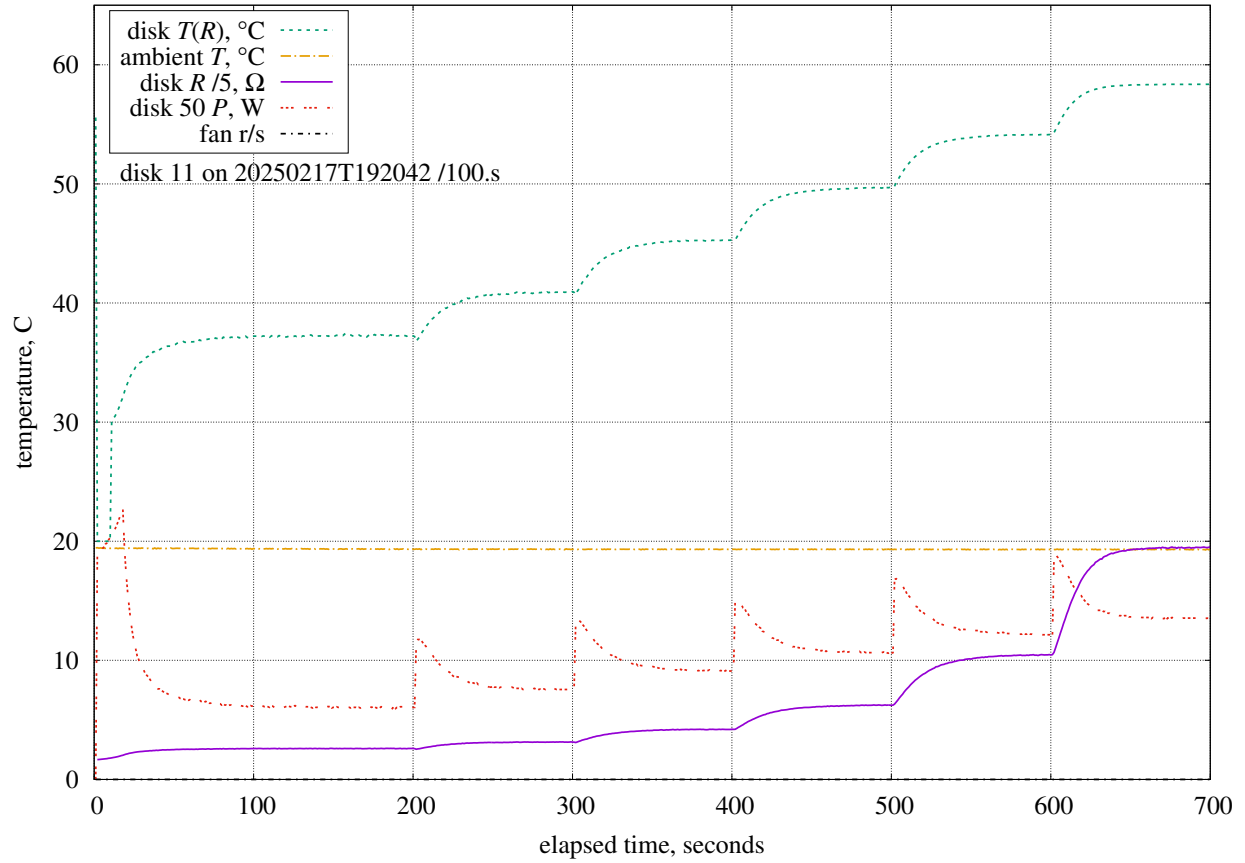
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.19%/K	0.10.K	0.42%	LM35C differential
C_S	0.420	-4.96%	0.050	0.25%	rim shape factor
D_o	2.81.mm	+1677%/m	500.um	0.84%	tube outer diameter
D_i	1.11.mm	+10095%/m	200.um	2.02%	tube inner diameter
D_g	166.um	-364%/m	750.um	0.27%	tube air gap
L_{wire}	38.0.mm	+1516%/m	500.um	0.76%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.177%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.58%	ABS thermal conductivity
d	12.0.mm	+2542%/m	100.um	0.25%	disk diameter
				2.88%	combined bias uncertainty



$\theta = 142.5^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 142.6$.

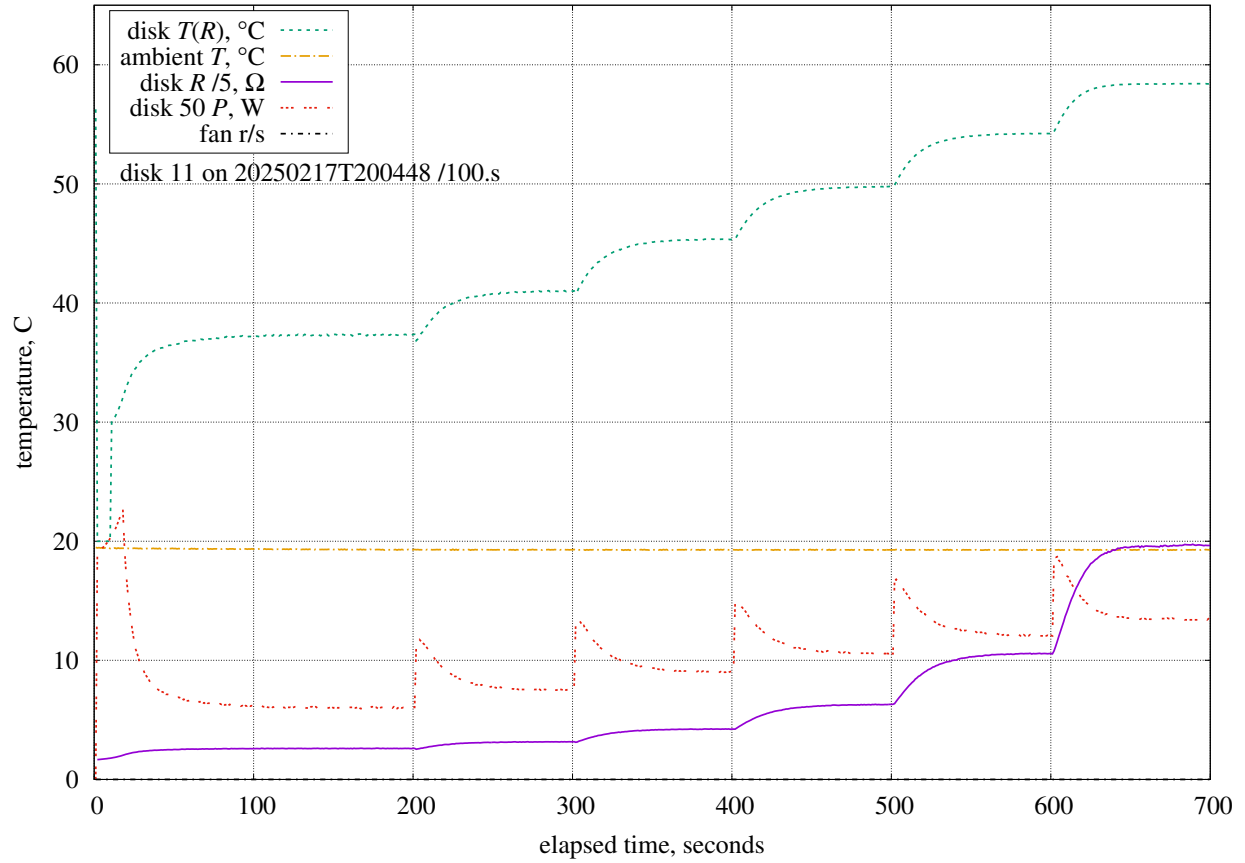
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.19%/K	0.10.K	0.42%	LM35C differential
P	99.0.kPa	+0.0001%/Pa	1.5.kPa	0.20%	MPXH6115A6U air pressure
C_S	0.420	-5.16%	0.050	0.26%	rim shape factor
D_o	2.81.mm	+1744%/m	500.um	0.87%	tube outer diameter
D_i	1.11.mm	+9904%/m	200.um	1.98%	tube inner diameter
D_g	166.um	-360%/m	750.um	0.27%	tube air gap
L_{wire}	38.0.mm	+1499%/m	500.um	0.75%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.175%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.56%	ABS thermal conductivity
d	12.0.mm	+2614%/m	100.um	0.26%	disk diameter
				2.85%	combined bias uncertainty



$\theta = 150.0^\circ$; $V = 0.000 \text{ m/s}$ (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 150.0$.

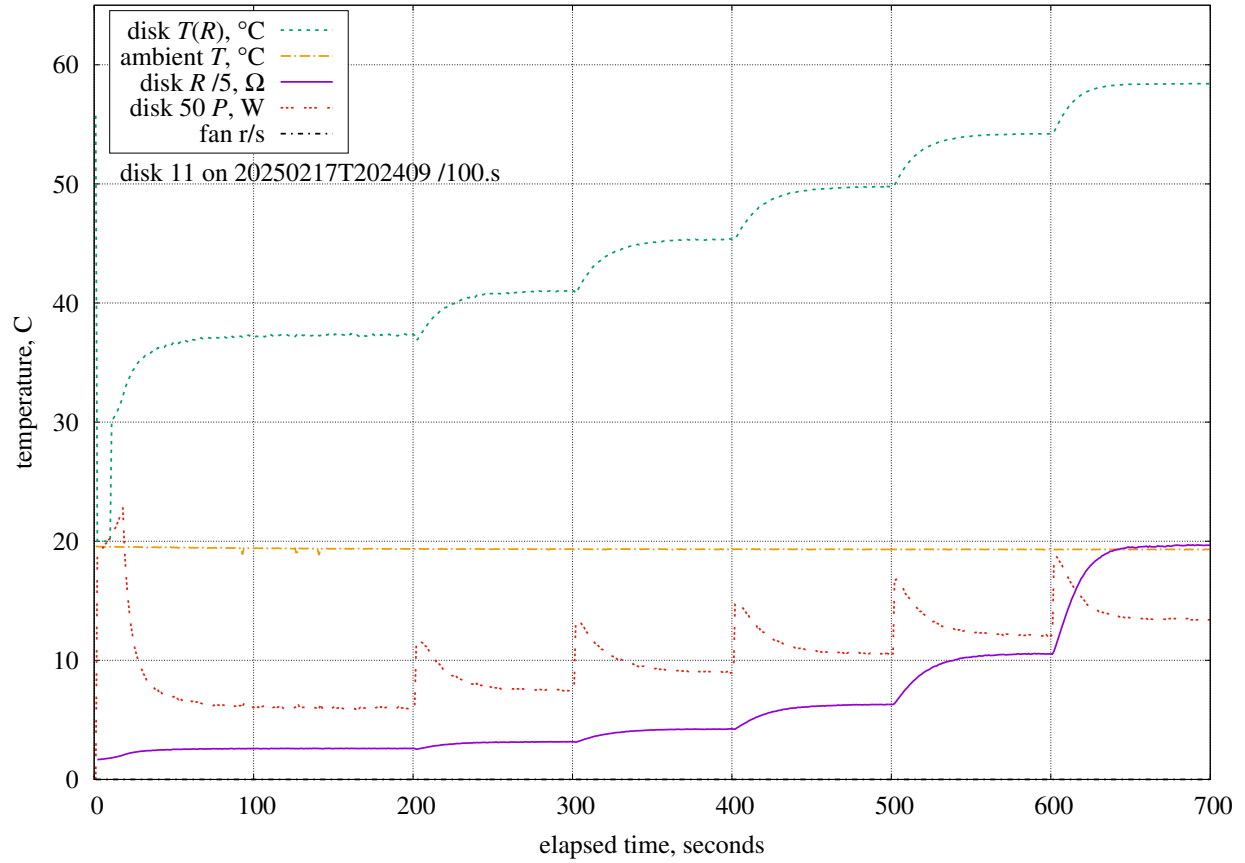
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.20%/K	0.10.K	0.42%	LM35C differential
P	99.1.kPa	+0.0001%/Pa	1.5.kPa	0.20%	MPXH6115A6U air pressure
C_S	0.420	-5.59%	0.050	0.28%	rim shape factor
D_o	2.81.mm	+1810%/m	500.um	0.91%	tube outer diameter
D_i	1.11.mm	+9630%/m	200.um	1.93%	tube inner diameter
D_g	166.um	-354%/m	750.um	0.27%	tube air gap
L_{wire}	38.0.mm	+1475%/m	500.um	0.74%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.172%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.54%	ABS thermal conductivity
d	12.0.mm	+2727%/m	100.um	0.27%	disk diameter
				2.81%	combined bias uncertainty



$\theta = 157.5^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 157.6$.

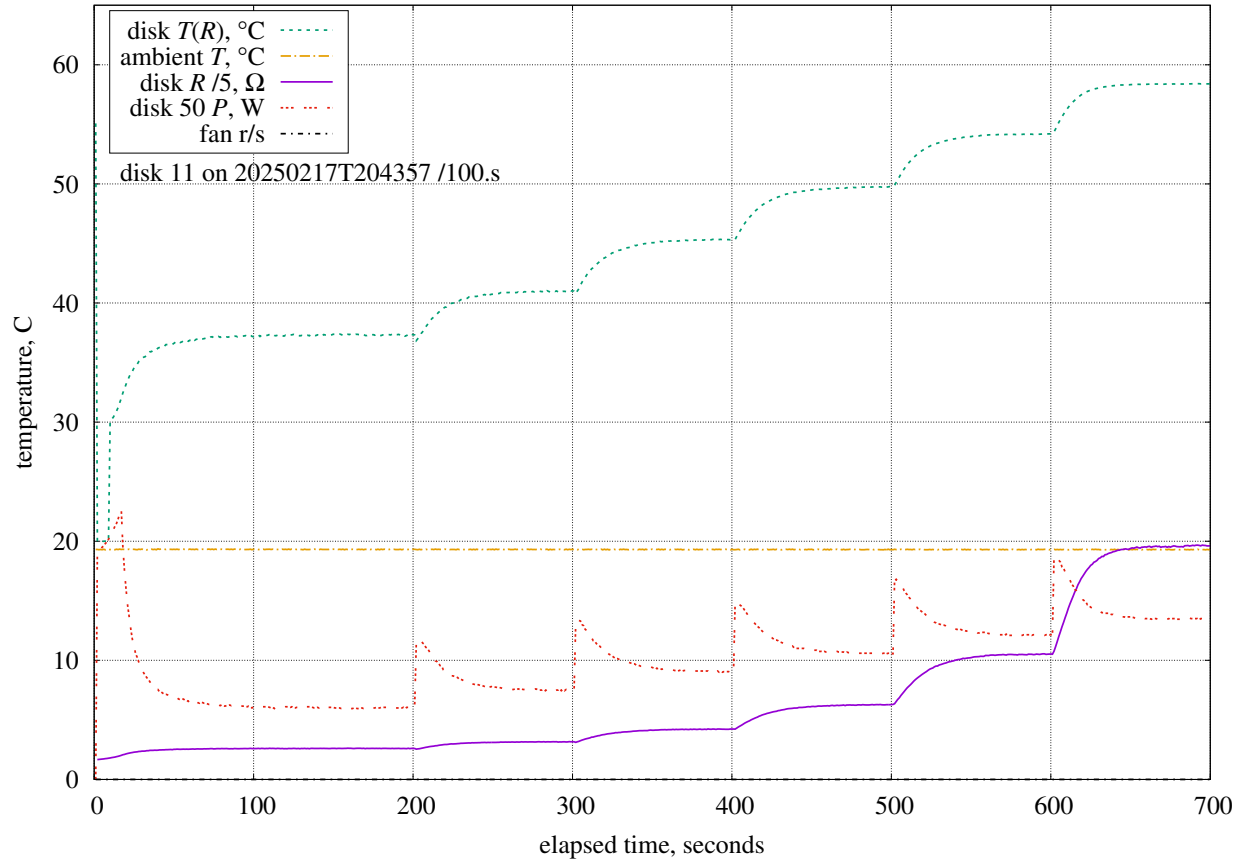
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.19%/K	0.10.K	0.42%	LM35C differential
P	99.1.kPa	+0.0001%/Pa	1.5.kPa	0.20%	MPXH6115A6U air pressure
C_S	0.420	-5.88%	0.050	0.29%	rim shape factor
D_o	2.81.mm	+1962%/m	500.um	0.98%	tube outer diameter
D_i	1.11.mm	+9483%/m	200.um	1.90%	tube inner diameter
D_g	166.um	-352%/m	750.um	0.26%	tube air gap
L_{wire}	38.0.mm	+1468%/m	500.um	0.73%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.171%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.53%	ABS thermal conductivity
d	12.0.mm	+2682%/m	100.um	0.27%	disk diameter
				2.81%	combined bias uncertainty



$\theta = 165.0^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 165.0$.

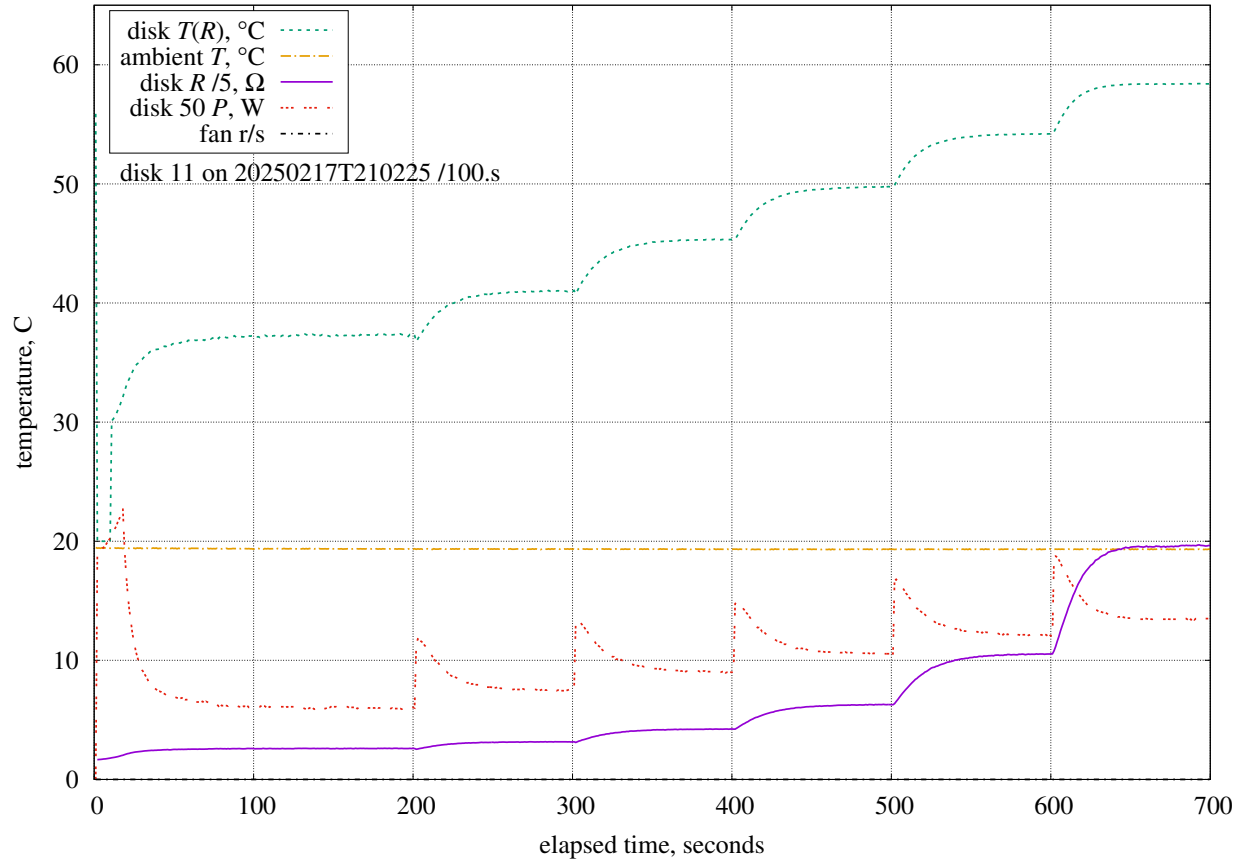
Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.20%/K	0.10.K	0.42%	LM35C differential
P	99.2.kPa	+0.0001%/Pa	1.5.kPa	0.21%	MPXH6115A6U air pressure
C_S	0.420	-6.42%	0.050	0.32%	rim shape factor
D_o	2.81.mm	+2128%/m	500.um	1.06%	tube outer diameter
D_i	1.11.mm	+9119%/m	200.um	1.82%	tube inner diameter
D_g	166.um	-345%/m	750.um	0.26%	tube air gap
L_{wire}	38.0.mm	+1437%/m	500.um	0.72%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.168%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.51%	ABS thermal conductivity
d	12.0.mm	+2775%/m	100.um	0.28%	disk diameter
				2.78%	combined bias uncertainty



$\theta = 172.5^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 172.6$.

Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.22%/K	0.10.K	0.42%	LM35C differential
P	99.2.kPa	+0.0001%/Pa	1.5.kPa	0.22%	MPXH6115A6U air pressure
D_o	2.81.mm	+2377%/m	500.um	1.19%	tube outer diameter
D_i	1.11.mm	+8504%/m	200.um	1.70%	tube inner diameter
D_g	166.um	-333%/m	750.um	0.25%	tube air gap
L_{wire}	38.0.mm	+1386%/m	500.um	0.69%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.163%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.46%	ABS thermal conductivity
d	12.0.mm	+3011%/m	100.um	0.30%	disk diameter
				2.70%	combined bias uncertainty



$\theta = 180.0^\circ$; $V = 0.000$ m/s (0 r/min)

Estimated measurement uncertainties of natural convection at $\theta = 180.0$.

Symbol	Nominal	Sensitivity	Bias	Uncertainty	Component
ΔT	25.0.K	+4.31%/K	0.10.K	0.43%	LM35C differential
P	99.3.kPa	+0.0002%/Pa	1.5.kPa	0.27%	MPXH6115A6U air pressure
D_o	2.81.mm	+3170%/m	500.um	1.58%	tube outer diameter
D_i	1.11.mm	+5351%/m	200.um	1.07%	tube inner diameter
L_{wire}	38.0.mm	+1055%/m	500.um	0.53%	wire length
k_{ABS}	179. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	+0.129%/ $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	9.0. $\frac{\text{mW}}{\text{K}\cdot\text{m}}$	1.15%	ABS thermal conductivity
d	12.0.mm	+4501%/m	100.um	0.45%	disk diameter
θ	180.°	+21.5%/°	0.20.°	4.30%	plate angle
				4.93%	combined bias uncertainty