

DATA SHEET / TEMPERATURE MEASUREMENT

Name:

No. of the thermostat:

Pt resistance thermometer: measuring the temperature fall and raise curves

t (s)	$R_{\text{fall}} (\Omega)$	$R_{\text{raise}} (\Omega)$
0	$R_{\text{therm}} =$	$R_0 =$
5		
10		
15		
20		
25		
30		
35		
40		
45		
50		
55		
60		
70		
80		
90		
100		
110		
120		

130		
140		
150		
160		
170		
180		
210		
240		
270		
300		
330		
360		
390		
420		
450		
480		
510		
540		
570		
600		

$R_0 = \dots\dots\dots \Omega$, $R_{\text{therm}} = \dots\dots\dots \Omega \rightarrow T_{\text{therm}} = \dots\dots\dots ^\circ\text{C}$

Time constants:

exponential: $\tau_{\text{fall}} = \dots\dots\dots [\quad]$ $\tau_{\text{raise}} = \dots\dots\dots [\quad]$

linearized: $\tau_{\text{fall}} = \dots\dots\dots [\quad]$ $\tau_{\text{raise}} = \dots\dots\dots [\quad]$