DATA SHEET / MECHANICS / THE SIMPLE PENDULUM

Name:

Measured data:

Length of the string L =

Time of 10 periods with small angle:

$10 \cdot T_i$ (s)					

The time of 10 periods when the initial angle is increased:

Calculations:

$10 \cdot T_i$ (s)	T_i (s)	$(T_i - \overline{T})$	$(T_i - \overline{T})^2$
			sum:

$\overline{T} =$

$s_{\overline{T}} =$

Student parameter for P = 95%: t =

ΔT =

The time period with the error interval: T =

Formula: g (T,L) =

$\overline{g} =$

Error propagation formula: Δg =

Estimated value of the error interval for the length of the string: ΔL =

Calculation of the error interval: Δg =

The acceleration of gravity from the measurement with the error interval:

g =