BASIS FOR THE APPROACH

Steps:

- $\mathbf{0} p_t = p + q$ is accurate
- Errors in p and q arise from error at static sources
- **Solution** Find Δq required to match LAMS; hence Δp
- Refinements for accuracy
- **5** Δp is a function of measured quantities like p_m , q_m , α_m
- Flight maneuvers: checks and to calibrate T
- Use LAMS with the above results to measure T directly.

LAMS-based measurement of temperature

- LAMS provides TAS=v
- p and q determine Mach number $M = v/v_s$
- $v_s = \sqrt{\gamma R_a T}$ so measured M and $v \Rightarrow T$ without reference to a temperature sensor

