

Variable	Symbol	Precision/value
Differential pressure between holes 1 and 6 (5HP)	$\sigma_{\Delta}(P_1 - P_6)$	1.2 Pa
Differential pressure between holes 2 and 3 (5HP)	$\sigma_{\Delta}(P_2 - P_3)$	1.4 Pa
Differential pressure between holes 4 and 5 (5HP)	$\sigma_{\Delta}(P_4 - P_5)$	1.2 Pa
Ratio of differential pressures (5HP)	$\sigma_{C_{\alpha}}$	0.013
Angle of attack (5HP)	$\sigma_{\alpha}$	0.16°
Pitch angle (INS)	$\sigma_{\theta}$	0.25°
Air speed (5HP)	$\sigma_{V_a}$	0.1 m s <sup>-1</sup> systematic 7 %
Vertical RPA speed (INS)	$\sigma_{V_z}$	0.1 m s <sup>-1</sup>
Coefficient calibration – slope	$a_{\alpha}$	12.52
Coefficient calibration – intersect	$b_{\alpha}$	0.039
Uncertainty related to vertical wind velocity	$\sigma_w$	0.12 m s <sup>-1</sup>