

Appendix C

INSTRUMENTATION

The following table details the minimum technical specifications allowed for each instrument type.

The minimum period for all calibratable instrumentation is **12 months**. (¹Pitot tube accessory is not required to be calibrated), although TACA recommends periodic checks for damage and leakage at the TACA technician's discretion.

Function	Instrument	Units	Range/ Size	Resolution	Accuracy	
					Range	Max Error
Air	Digital Air Pressure Manometer	Pa	+/- 2500	0.1 Pa (0 – 99.9)	0 to 2500	+/- 2% reading +/- 0.25 Pa
	Digital Air Velocity Measurement (Pitot)	m/s	0.25 to 20	0.01	0.25 to 20	+/- 3% reading +/- 0.25 m/s
	Direct Reading Capture Hood	L/s	50 to 940	1.0	50 to 940	+/- 3% reading +/- 3.5 L/s
	¹ Pitot Tube	---	450mm	---	---	---
Temperature	Digital Thermometer + Air Probe	°C	0 to 60	0.1	0 to 60	+/- 0.5% reading +/- 0.5°C
	Digital Thermometer + Immersion or Penetration probe	°C	-20 to 120	0.1	-20 to 120	+/- 0.5% reading +/- 0.5°C
Humidity	Digital Thermo Hygrometer	% RH	5 to 95	0.1	5 to 95	+/- 3% RH
Rotation	Digital Tachometer	RPM	0 to 5000	1	5 to 5000	+/- 2% reading +/- 2 RPM
Electrical	Digital Voltage (True RMS)	Volts AC	0 to 600	0.1	0 to 600	+/- 2% Reading +/- 5 digits
	Digital Amperage (True RMS)	Amperes AC	0 to 400	0.1	45 to 65 Hz	+/- 2% Reading +/- 5 digits
Hydronic	Digital Pressure	kPa	0 to 1400	1	0 to 1400	+/- 2% Reading +/- 7 kPa
	Digital Differential Pressure	kPa	0 to 200	0.1	0 to 200	+/- 2% Reading +/- 1.5 kPa