

Appendix C

INSTRUMENTATION

The following table details the complete inventory of instrumentation required by accredited companies, along with the minimum allowable technical specifications 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 + Probe	% 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