

Minimum NCI Advanced Air and Hydronic Balancing Recertification/Transfer Test Instrument Guidelines - Air Test and Balance Instruments

INSTRUMENT NAME	MINIMUM ACCURACY	MINIMUM RESOLUTION	MINIMUM RANGE	CALIBRATION PERIOD
Rotating Vane Anemometer	± 1%	1 FPM / .01 m/s	50 – 5000 FPM (.25 m/s – 25 m/s)	12 months
Velocity Grid	± 1%	N/A	50-5000 FPM (.25 m/s – 25 m/w)	N/A
Capture Hood Hood Kit	N/A	N/A	2' x 4' and 1' x 4'	N/A
Capture Hood	±3% ±7 CFM	1 CFM / 1 L/s	100-2000 CFM (50 L/s to 950 L/s)	12 Months
Manometer	± 3%	.01" / .01 Pa	0-1" and up to 20" (0-250 Pa and up to 5000 Pa)	12 Months
Airfoil/Straight Pitot Tube	N/A	N/A	24" Minimum (800 mm)	N/A
Thermal Anemometer	± 5% ±10 FPM	1 FPM / .01m/s	50-3900 FPM (.25 - 20 m/s)	12 Months
Hygrometer	± 2%	.1 %	10% - 90% R.H.	12 Months
Tachometer	± 2%	1 RPM	30-5000 RPM	12 Months
Thermometer	± 1%	.1°	0°F to 230° F (-20° C to 105°C)	12 Months
Electrical Clamp Meter	± 2% ± 2%	1 Volt .1 Amp	0-600 Volts 0-100 Amperes	12 Months 12 Months

Minimum NBC Recertification Test Instrument Guidelines – Hydronic Test and Balance Instruments

INSTRUMENT NAME	MINIMUM ACCURACY	MINIMUM RESOLUTION	MINIMUM RANGE	CALIBRATION PERIOD
Temperature Probe (Immersion)	± 1%	.1°	-0°F to 230°F (-20°C to 105°C)	12 Months
Temperature Clamp	± 1%	.1°	-0° to +230° (-20°C to 105°C)	12 Months
Hydronic Manometer	± 2%	.1 PSI/ 1 kPa	0-200 PSI (0 to 1400 kPa)	12 Months