

Discipline Function		BSC Required Instrumentation (Effective January 1, 2026)																		
			RANGE						ACCURACY						RESOLUTION					
Air	Air Pressure		0	in wg	to	10	in wg		2%	of reading	±	0.001	in wg	0.001	in wg	<	1	in wg		12 Months
			0	Pa	to	2500	Pa		2%	of reading	±	0.25	Pa	0.10	Pa	<	250	Pa		
	Air Velocity Instrument for Pitot Traverse		100	fpm	to	3500	fpm	±	5%	of reading	±	7	fpm	1	fpm					12 Months
			0.50	m/s	to	20	m/s	±	5%	of reading	±	0.04	m/s	0.01	m/s					
	Digital Direct Reading Hood		100	cfm	to	2000	cfm	±	5%	of reading	±	7	cfm	1	cfm					12 Months
			50	l/s	to	944	l/s	±	5%	of reading	±	4	l/s	1	l/s					
Temperature	Air Meter with detachable probe		0	°F	to	200	°F	±	0.5%	of reading	+	2.0	°F	0.1	°F					12 Months
			-20	°C	to	100	°C	±	0.5%	of reading	+	1.0	°C	0.1	°C					
	Immersion Meter with detachable probe		0	°F	to	200	°F	±	0.5%	of reading	+	2.0	°F	0.1	°F					12 Months
			-20	°C	to	100	°C	±	0.5%	of reading	+	1.0	°C	0.1	°C					
Humidity	Humidity Meter with detachable probe		10	% RH	to	90	% RH		3%	RH				1%						12 Months
Electrical	Amperage Measurement		0.1	AC Ampere	to	100	AC Amperes		2%	of reading	±	5	digits	0.1	AC Ampere					12 Months
	Voltage Meter - True RMS		1	VAC	to	600	VAC		2%	of reading	±	5	digits	1	Volt					12 Months
Rotation	Rotation Measurement		60	rpm	to	5000	rpm		2%	of reading	±	2	rpm	1	rpm					12 Months
Hydronic	Pressure Measurement		0.4	psi	to	200	psi		2%	of reading	±	1	psi	0.1	psi					12 Months
			3	kPa	to	1400	kPa		2%	of reading	±	7	kPa	1	kPa					
	Δ Pressure measurement		0.4	psi	to	75	psi		2%	of reading	±	0.5	psi	0.01	psi					12 Months
			3	kPa	to	500	kPa		2%	of reading	±	3.5	kPa	0.1	kPa					

NOTES

- *1 CPT Option - choose only Option 1 OR Option 2 - along with required instrument for CPT certification (All instruments in any of the chosen is required)
- *2 FHT Orifice Calibrator - Choose only one.
- *3 Refer to Appendix A for complete instrumentation requirements for Sound Measurement (SM)
- *4 Firms may own or rent vibration equipment instrumentation for vibration certification
- *5 Calibration Requirement: Data logger calibration may be verified from a calibrated instrument with an associated calibration form showing calibration readings from both the calibrated instrument and the data logger. If a data logger is out of calibration and cannot be adjusted, the logger must be sent back to the factory for re-calibration or be replaced
- *6 Accuracy of an instrument is either stated as a percentage of full scale or as a percentage of the reading. NEBB has chosen percentage of reading due to it being a more accurate reading. Since a % of reading error becomes smaller as you read near the lowest part of the scale the instrument resolution and accuracy must be very small to maintain the accuracy of the reading. To overcome this the manufactures add a standard offset to the % of reading to maintain a reasonable accuracy at all locations on the scale. Normally for TAB readings we are never operating at the extreme ends of the scale so this has no impact on our work.
- *7 Calibrated per Industry/Manufacturer standards.
- *8 Firms may own or rent Temp Documentation Thermal Camera for RCx. BET Temp Documentation Thermal Camera must be owned.
- *9 Sound level meters with vibration integrators are *NOT* acceptable for NEBB approved instrumentation for making vibration measurements. That is, 1/3 octave or full octave vibration readings are not sufficient for NEBB Sound and Vibration work.
- *10 Vibration meters, which *ONLY* acquire and display the overall vibration level, displacement, velocity, and/or acceleration DO NOT meet NEBB minimum requirements for Vibration instrumentation. These types of meters may only be used if the contract documents specifically allow for their usage.

General Note: Some local jurisdictions require qualified electrician for any electrical readings

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		RANGE	ACCURACY	RESOLUTION	Notes	Calibration Requirements
Calibration Requirement: Instruments require a 3-point calibration, traceable to National Institute of Standards and Technology (NIST) or National Metrology Institute (NMI) unless otherwise noted.						