

Discipline Function		BET Required Instrumentation (Effective January 1, 2022)																	
		RANGE				ACCURACY				RESOLUTION				Notes	Calibration Requirements				
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
													0.01	in wg	>	1	in wg		
		0	Pa	to	2500	Pa	±	2%	of reading	±	0.25	Pa	0.10	Pa	<	250	Pa		
														1	Pa	>	250		
	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					
Temperature	Air Meter with 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					
BET / RCx Instruments	Temp Documentation Thermal Camera	-4	°F	to	450	°F	±	2%		or	3.6	°F	0.1 @ 86 °F	&	160 x 120			Per Manufacturer's Requirements	
		-20	°C	to	232	°C	±	2%		or	2.0°C	°C	0.1 @ 30 °C	&	160 x 120				
BET Instruments	Digital pressure flow measurement system	Not Applicable				±	4%	of reading					0.1 Pa (0.0004 inwc, 0.002 psf)					Per Manufacturer's Requirements	

**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 full scale 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.
- General Note:** Some local jurisdictions require qualified electrician for any electrical readings
- 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.