



## Azzur Technical Services Capabilities

Measurement Area	Range	Resolution	Accuracy	Type	Technique, Reference Standard Equipment
Temperature	-200...160 °C	0.001 °C	± 0.05 °C	Measure	Fluke 1524 / 5606
	-196...200 °C	0.1 °C	± 0.25 °C	Measure	Kaye Advanced Validation System (AVS)
	-90...140 °C	0.01 °C	± 0.15 °C	Source	Kaye/Hart LTR-90 Ultra-Cool Dry Block Calibrator
	-10...122 °C	0.1 °C	± 0.25 °C	Source	Fluke 9102S Low Temperature Handheld Dry-Well Calibrator
	-30...155 °C	0.001 °C	± 0.04 °C	Source	Ametek RTC-156 / STS 200A Reference Temperature Calibrator
	-196...420 °C	0.001 °C	± 0.025 °C	Measure	Kaye 400 Intelligent RTD (iRTD)
	-20...60 °C	0.01 °C	± 0.20 °C	Measure	Vaisala HMP75 Humidity & Temperature Probe
Carbon Dioxide	0...20%	0.01 %CO2	± 0.10 %CO2 @ 5 %CO2 ± 0.20 %CO2 @ 0...8 %CO2 ± 0.40 %CO2 @ 8...20 %CO2	Measure	Vaisala GMP251 Carbon Dioxide Probe
Dimensional	0...12"	0.0005"	± 0.0015"	Measure	Mitutoyo 500-193 Digital Caliper
	0.500...6.000"		± 0.0002"	Source	Vernier VC-1E Caliper Masters
	0...36"	0.0001"	± 0.0025 @ 1.0000" ± 0.0035 @ 1.0000...36.0000"	Measure	Starrett C604R-36 Spring Tempered Steel Ruler
Pressure	-12...300 PSI	0.01 PSI	± 0.035 %FS	Source	Fluke 719PRO-300G Pressure Calibrator
	0...10 "H2O		± 0.2 %		Fluke 750P01 Differential Pressure Module
	0...500 PSI		± 0.045 %		Fluke 750P07 Gauge Pressure Module
	0...1 "H2O		± 0.35 %		Fluke 750P00 Pressure Module
Resistance	0.01...100 KΩ	0.01 Ω	± 0.01 %	Source	IET Labs HARS-X-7-0.01 Resistance Decade Box
Rotational Speed	5...200,000 RPM	0.001	± 0.01 %	Measure	Monarch PLT200 Laser Tachometer
Humidity	0...100 %RH	0.01 %RH	± 1.00 %RH @ 0...90 %RH ± 1.70 %RH @ 90...100 %RH	Measure	Vaisala HMP75 Humidity & Temperature Probe
Time	23:59:59	0.01 Second	± 0.01 %	Measure	Control Company 1042 Stopwatch

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Balances	100mg...228kg		$\pm 0.005\%$ @ 100, 200, 500 mg $\pm 0.017\%$ @ 1...100 g $\pm 1.3\%$ @ 1 kg $\pm 2.5\%$ @ 2 kg $\pm 6.0\%$ @ 5 kg $\pm 13.0\%$ @ 10 kg $\pm 5.0\%$ @ 20 kg	Source	Troemner Analytical Ultra Class Precision Weights
Voltage DC	0...100.000 mVDC	0.001 mV	$\pm 0.03\% + 0.005$ mV	Measure	Fluke 754 Documenting Process Calibrator
	0...3.00000 VDC	0.00001 VDC	$\pm 0.03\% + 0.00005$ V		
	0...30.0000 VDC	0.0001 VDC	$\pm 0.03\% + 0.0005$ V		
	0...300.00 VDC	0.01 VDC	$\pm 0.07\% + 0.05$ V		
Voltage AC	0...3.000 VAC	0.001 VAC	$\pm 1.0\% + 0.004$ V	Measure	Fluke 754 Documenting Process Calibrator
	0...30.00 VAC	0.01 VAC	$\pm 1.0\% + 0.04$ V		
	0...300.0 VAC	0.1 VAC	$\pm 1.0\% + 0.2$ V		
Current DC	0...30.000 mADC	0.001 mADC	$\pm 0.015\% + 7$ $\mu$ A	Measure	Fluke 754 Documenting Process Calibrator
	0...110.00 mADC	0.01 mADC	$\pm 0.015\% + 30$ $\mu$ A		
Resistance	0...10.000 $\Omega$	0.001 $\Omega$	$\pm 0.07\% + 70$ m $\Omega$	Measure	Fluke 754 Documenting Process Calibrator
	0...100.00 $\Omega$	0.01 $\Omega$	$\pm 0.07\% + 70$ m $\Omega$		
	0...1.0000 k $\Omega$	0.0001 $\Omega$	$\pm 0.07\% + 0.5$ $\Omega$		
	0...10.000 k $\Omega$	0.001 $\Omega$	$\pm 0.15\% + 15$ $\Omega$		
Frequency	1.00...110.00 Hz	0.01 Hz	$\pm 0.05$ Hz	Measure	Fluke 754 Documenting Process Calibrator
	110.1...1100.0 Hz	0.1 Hz	$\pm 0.5$ Hz		
	1.101...11.000 kHz	0.001 kHz	$\pm 0.005$ kHz		
	11.01...50.00 kHz	0.01 kHz	$\pm 0.05$ kHz		
Voltage DC	0...100.000 mVDC	0.001 mV	$\pm 0.015\% + 0.005$ mV	Source	Fluke 754 Documenting Process Calibrator
	0...1.00000 VDC	0.00001 VDC	$\pm 0.015\% + 0.0005$ V		
	0...15.0000 VDC	0.0001 VDC	$\pm 0.015\% + 0.0005$ V		
Current DC	0...22.000 mADC	0.001 mADC	$\pm 0.02\% + 0.003$ mA	Source	



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Resistance	0...10.000 Ω	0.001 Ω	± 0.015 % + 15 mΩ	Source	Fluke 754 Documenting Process Calibrator
	0...100.00 Ω	0.01 Ω	± 0.015 % + 30 mΩ		
	0...1.0000 kΩ	0.0001 Ω	± 0.03 % + 0.3 Ω		
	0...10.000 kΩ	0.001 Ω	± 0.03 % + 5 Ω		
Frequency	0.1...10.99 Hz	0.01 Hz	± 0.01 Hz	Source	Fluke 754 Documenting Process Calibrator
	0.01...10.99 Hz	0.01 Hz	± 0.01 Hz		
	11.00...109.99 Hz	0.01 Hz	± 0.1 Hz		
	110.0...1099.9 Hz	0.1 Hz	± 0.1 Hz		
	1.100...21.999 kHz	0.001 kHz	± 0.002 kHz		
	22.000...50.000 kHz	0.001 kHz	± 0.005 kHz		
Conductivity	0...9999 uS	0.1 uS	± 1.0 %	Measure	Myron 6PIIFCE Ultrameter
	10...200 mS	0.01 mS	± 1.0 %		
pH	0.00...14.00 pH	0.01 pH	± 0.01 pH	Measure	Myron 6PIIFCE Ultrameter