

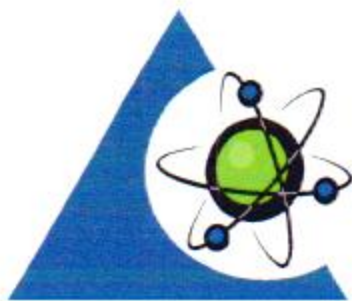


# Certificate of Accreditation: Supplement

**Process Automation & Control, Inc.**  
 4502 Cogswell Avenue  
 Pell City, AL 35128

*Accreditation is granted to this facility to perform the following calibrations:*

CALIBRATION FIELD	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )
Electrical	Source mV	Up to 110.0 mV	0.01% Reading + 0.005% f.s.
	Source V	Up to 1.100 000 V	0.01% Reading + 0.005% f.s.
		Up to 15.000 0 V	0.01% Reading + 0.005% f.s.
	Source mA	Up to 22.00 mA	0.01% Reading + 0.015% f.s.
	Simulate mA	Up to 22.00 mA	0.01% Reading + 0.015% f.s.
	Source $\Omega$	Up to 11.000 $\Omega$	0.01% Reading + 20 $\mu\Omega$
		Up to 110.00 $\Omega$	0.01% Reading + 40 $\mu\Omega$
		Up to 1.100 k $\Omega$	0.02% Reading + 0.5 $\Omega$
		Up to 11.000 k $\Omega$	0.03% Reading + 5 $\Omega$
	Source Frequency	0.00 Hz to 10.99 Hz	0.01 Hz
		11.00 Hz to 109.99 Hz	0.1 Hz
		110.0 Hz to 1 099.9 Hz	0.1 Hz
		1.100 kHz to 21.999 kHz	2 Hz
		22.000 kHz to 50.000 kHz	5 Hz
	Measure mV	Up to 110.000 mV DC	0.025% Reading + 0.015% f.s.
	Measure DC Volt	Up to 1.1000 V DC	0.025% Reading + 0.005% f.s.
		Up to 11.0000 V DC	0.025% Reading + 0.005% f.s.
		Up to 110.000 V DC	0.05% Reading + 0.005% f.s.
		Up to 300.00 V DC	0.05% Reading + 0.005% f.s.
		20 Hz to 40 Hz	2% Reading + 10 counts
		40 Hz to 500 Hz	0.5% Reading + 5 counts
	Measure DC Current	500 Hz to 1 kHz	10% Reading + 20 counts
		Up to 30.000 mA	0.01% Reading + 0.015% f.s.
		Up to 110.00 mA	0.01% Reading + 0.015% f.s.
	Measure $\Omega$	Up to 11.000 $\Omega$	0.05% Reading + 5 m $\Omega$
		Up to 110.00 $\Omega$	0.05% Reading + 50 m $\Omega$
		Up to 1.1 k $\Omega$	0.25% Reading + 0.5 $\Omega$
Up to 11.000 k $\Omega$		0.1% Reading + 10 $\Omega$	



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Electrical (Continued)	Measure Frequency	1.00 Hz to 1 099.9 Hz	0.05 Hz
		110.0 Hz to 1 099.9 Hz	0.5 Hz
		1.100 Hz to 10.999 Hz	5 Hz
		11.00 kHz to 50.00 kHz	50 Hz
Thermodynamic	RTD 10 $\Omega$ Cu (427)	-100°C to 260°C	Measure 3°C Source 1°C
	RTD 100 $\Omega$ Pt (3916)	-200°C to 630°C	Measure 0.3°C Source 0.1°C
	RTD 100 $\Omega$ Pt (3926)	-200°C to 630°C	Measure 0.3°C Source 0.1°C
	RTD 100 $\Omega$ Pt (385)	-200°C to 800°C	Measure 0.3°C Source 0.1°C
	RTD 200 $\Omega$ Pt (385)	-190°C to 630°C	Measure 0.3°C Source 0.1°C
	RTD 500 $\Omega$ Pt (385)	-190°C to 630°C	Measure 0.3°C Source 0.1°C
	RTD 1 000 $\Omega$ Pt (385)	-190°C to 630°C	Measure 0.3°C Source 0.1°C
	RTD 120 $\Omega$ Ni (672)	-80°C to 630°C	Measure 0.3°C Source 0.1°C
	Thermocouple Type E	-200°C to 900°C	Measure 0.3°C Source 0.1°C
	Thermocouple Type N	-270°C to 1 300°C	Measure 0.5°C Source 0.3°C
	Thermocouple Type J	0°C to 750°C	Measure 0.3°C Source 0.2°C
	Thermocouple Type L	-200°C to 900°C	Measure 0.3°C Source 0.3°C
	Thermocouple Type K	-200°C to 1 250°C	Measure 0.3°C Source 0.3°C
	Thermocouple Type T	-200°C to 350°C	Measure 0.3°C Source 0.3°C
	Thermocouple Type U	-200°C to 600°C	Measure 0.3°C Source 0.3°C
Thermocouple Type B	0°C to 1 700°C	Measure 0.3°C Source 0.3°C	



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Thermodynamic (Continued)	Thermocouple Type R	0°C to 1 450°C	Measure 1.0°C Source 0.9°C
	Thermocouple Type S	0°C to 1 450°C	Measure 0.9°C Source 0.9°C
	Thermocouple Type C	0°C to 2 320°C	Measure 0.6°C Source 0.6°C
	Temperature Source (Dry Block)	20°C above ambient to 350°C	1.5°C
Mechanical	Pressure - Draft Range to High Pressure	-103.421 4 kPa to 206.842 7 kPa	0.050% f.s.
		2.490 881 kPa	0.025% f.s.
		0 kPa to 689.475 7 kPa	0.025% f.s.
		0 kPa to 34 473.79 kPa	0.25% span
	Speed - RPM	0.1 RPM to 999.9 RPM	0.06 RPM
		1 000 RPM to 9 999.9 RPM	0.06RPM
		10 000 RPM to 25 000 RPM	0.006% Reading $\pm$ 1 digit
	Tension	0 kg to 453.59 kg	0.2% capacity
Magnetic Flow Calibrator	0.1 m/s	0.04% of set value	
	1 m/s	Flow rate of 0.04 mm/s	
Time & Frequency	Timer	0 min to 30 min	0.10 seconds
Mass	Test Weights	0 kg to 1 000 kg	0.001 kg