SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 & ANSI/NCSL Z540-1-1994

Wilmington Instrument Company, Inc.

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CALIBRATION

Valid to: October 27, 2013 Certificate Number: AC-1577

I. Electromagnetic – DC/Low Frequency

PARAMETER/ EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
DC Voltage- Source	Up to 220 mV 220 mV to 2.2 V (2.2 to 11) V (11 to 22) V (22 to 220) V 220 V to 1.1 kV	7.5 µV/V + 400 nV 5 µV/V + 700 nV 3.5 µV/V + 2.5 µV 3.5 µV/V + 4 µV 5 µV/V + 40 µV 6.6 µV/V + 400 µV	Fluke 5720A	OEM or GIDEP Sourced or Wilmington Procedures
DC Current- Source	Up to 220 µA 220 µA to 2.2 mA (2.2 to 22) mA (22 to 220) mA 220 mA to 2.2 A	40 µA/A + 6 nA 35 µA/A + 7 nA 35 µA/A + 400 nA 45 µA/A + 700 nA 80 µA/A + 12 µA	Fluke 5720A	
DC Current- Source Clamp-On Only	Up to 550 A (550 to 1 000) A	3.3 mA/A + 500 mA 4.4 mA/A	Fluke 5520A with Coil	
DC Resistance- Source	Up to 11 Ω (11 to 33) Ω (33 to 110) Ω (110 to 330) Ω 330 Ω to 1.1 kΩ (1.1 to 3.3) kΩ (3.3 to 11) kΩ (11 to 33) kΩ (33 to 110) kΩ (110 to 330) kΩ 330 kΩ to 1.1 MΩ 1.1 MΩ to 3.3 MΩ (3.3 to 11) MΩ (11 to 33) MΩ (33 to 110) MΩ (110 to 330) MΩ 330 MΩ to 1.1GΩ	40 µΩ/Ω + 1mΩ 30 µΩ/Ω + 1.5 mΩ 28 µΩ/Ω + 1.4 mΩ 28 µΩ/Ω + 2 mΩ 28 µΩ/Ω + 2 mΩ 28 µΩ/Ω + 20 mΩ 28 µΩ/Ω + 20 mΩ 28 µΩ/Ω + 200 mΩ 28 µΩ/Ω +200 mΩ 32 µΩ/Ω +2 Ω 32 µΩ/Ω + 2 Ω 60 µΩ/Ω + 30 Ω 130 µΩ/Ω + 50 Ω 250 µΩ/Ω + 2.5 kΩ 500 µΩ/Ω + 3 kΩ 3 mΩ/Ω + 100 kΩ 15 mΩ/Ω + 500 kΩ	Fluke 5520A	

PARAMETER/ EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
DC Resistance – Source, Fixed Values	1, 1.9 Ω	95 μΩ/Ω	Fluke 5720A	OEM or GIDEP Sourced or Wilmington Procedures
	10, 19 Ω	23 μΩ/Ω		
	100, 190 Ω	10 μΩ/Ω		
	1, 1.9, 10, 19 kΩ	8.5 μΩ/Ω		
	100 to 190 kΩ	11 μΩ/Ω		
	1 MΩ	20 μΩ/Ω		
	1.9 MΩ	21 μΩ/Ω		
	19 MΩ	470 mΩ/Ω		
	100 MΩ	100 mΩ/Ω		
AC Voltage – Source	**Up to 2.2 mV**			
	(10 to 20) Hz	240 μV/V + 4 μV		
	(20 to 40) Hz	90 μV/V + 4 μV		
	40 Hz to 20 kHz	80 μV/V + 4 μV		
	(20 to 50) kHz	200 μV/V + 4 μV		
	(50 to 100) kHz	500 μV/V + 5 μV		
	(100 to 300) kHz	1.1 mV/V + 10 μV		
	(300 to 500) kHz	1.4 mV/V + 20 μV		
	500 kHz to 1 MHz	2.7 mV/V + 20 μV		
	(2.2 to 22) mV			
	(10 to 20) Hz	240 μV/V + 4 μV		
	(20 to 40) Hz	90 μV/V + 4 μV		
	40 Hz to 20 kHz	80 μV/V + 4 μV		
	(20 to 50) kHz	200 μV/V + 4 μV		
	(50 to 100) kHz	500 μV/V + 5 μV		
	(100 to 300) kHz	1.1 mV/V + 10 μV		
	(300 to 500) kHz	1.4 mV/V + 20 μV		
	500 kHz to 1 MHz	2.7 mV/V + 20 μV		
	(22 to 220) mV			
	(10 to 20) Hz	240 μV/V + 12 μV		
	(20 to 40) Hz	90 μV/V + 7 μV		
	40 Hz to 20 kHz	80 μV/V + 7 μV		
	(20 to 50) kHz	200 μV/V + 7 μV		
	(50 to 100) kHz	460 μV/V + 17 μV		
	(100 to 300) kHz	900 μV/V + 20 μV		
	(300 to 500) kHz	1.4 mV/V + 25 μV		
	500 kHz to 1 MHz	2.7 mV/V + 45 μV		
	220 mV to 2.2 V			
	(10 to 20) Hz	240 μV/V + 40 μV		
	(20 to 40) Hz	90 μV/V + 15 μV		
	40 Hz to 20 kHz	45 μV/V + 8 μV		
	(20 to 50) kHz	75 μV/V + 10 μV		
	(50 to 100) kHz	110 μV/V + 30 μV		
	(100 to 300) kHz	420 μV/V + 80 μV		
	(300 to 500) kHz	1 mV/V + 200 μV		
	500 kHz to 1 MHz	1.7 mV/V + 300 μV		

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PARAMETER/ EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
AC Voltage - Source (cont.)	**(2.2 to 22) V** (10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz **(22 to 220) V** (10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz	 240 µV/V + 400 µV 90 µV/V + 150 µV 45 µV/V + 50 µV 70 µV/V + 100 µV 100 µV/V + 200 µV 275 µV/V + 600 µV 1 mV/V + 2 mV 1.5 mV/V + 3.2 mV 240 µV/V + 4 mV 90 µV/V + 1.5 mV 52 µV/V + 600 µV 80 µV/V + 1 mV 150 µV/V + 2.5 mV 900 µV/V + 16 mV 4.4 mV/V + 40 mV 8 mV/V + 80 mV	Fluke 5720A	OEM or GIDEP Sourced or Wilmington Procedures
AC Voltage – Source Wideband Amplitude 30 Hz to 500 kHz	300 µV to 1.1 mV (1.1 to 3) mV (3 to 11) mV (11 to 33) mV (33 to 110) mV (110 to 330) mV 330 mV to 1.1 V (1.1 to 3.5) V	8 mV/V + 2 µV 7 mV/V + 3 µV 7 mV/V + 8 µV 6 mV/V + 16 µV 6 mV/V + 40 µV 5 mV/V + 100 µV 5 mV/V + 400 µV 4 mV/V + 500 µV		
AC Voltage – Source Wideband Flatness	**Up to 1.1 mV** (10 to 30) Hz (30 to 120) Hz 120 Hz to 1.2 kHz (1.2 to 12) kHz (12 to 120) kHz 120 kHz to 1.2 MHz (1.2 to 2) MHz (2 to10) MHz (10 to 20) MHz (20 to 30) MHz	 3 mV/V 1 mV/V 1 mV/V 1 mV/V 1 mV/V 2 mV/V 2 mV/V 4 mV/V 6 mV/V 15 mV/V		

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PARAMETER/ EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
AC Voltage – Source Wideband Flatness (cont.)	**(1.1 to 3) mV** (10 to 30) Hz (30 to 120) Hz 120 Hz to 1.2 kHz (1.2 to 12) kHz (12 to 120) kHz 120 kHz to 1.2 MHz (1.2 to 2) MHz (2 to10) MHz (10 to 20) MHz (20 to 30) MHz **(3 to 3.5) mV** (10 to 30) Hz (30 to 120) Hz 120 Hz to 1.2 kHz (1.2 to 12) kHz (12 to 120) kHz 120 kHz to 1.2 MHz (1.2 to 2) MHz (2 to10) MHz (10 to 20) MHz (20 to 30) MHz	 3 mV/V 1 mV/V 1 mV/V 1 mV/V 1 mV/V 2 mV/V + 3 µV 2 mV/V + 3 µV 3 mV/V + 3 µV 5 mV/V + 3 µV 15 mV/V + 3 µV 3 mV/V 1 mV/V 1 mV/V 1 mV/V 1 mV/V 1 mV/V + 3 µV 1 mV/V + 3 µV 2 mV/V + 3 µV 4 mV/V + 3 µV 10 mV/V + 3 µV	Fluke 5720A	OEM or GIDEP Sourced or Wilmington Procedures
AC Current – Source	**Up to 330 µA** (10 to 20) Hz (20 to 45) Hz (45 Hz to 1 kHz) (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz **330 µA to 3.3 mA** (10 to 20) Hz (20 to 45) Hz (45 Hz to 1 kHz) (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	 2 mA/A + 100 nA 1.5 mA/A + 100 nA 1.25 mA/A + 100 nA 3 mA/A + 150 nA 8 mA/A + 200 nA 16 mA/A + 400 nA 2 mA/A + 150 nA 1.3 mA/A + 150 nA 1 mA/A + 150 nA 2 mA/A + 200 nA 5 mA/A +300 nA 10 mA/A + 600 nA	Fluke 5520A	

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PARAMETER/ EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
AC Current – Source (cont.)	**3.3 to 33 mA** (10 to 20) Hz (20 to 45) Hz (45 Hz to 1 kHz) (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz **33 to 330 mA** (10 to 20) Hz (20 to 45) Hz (45 Hz to 1 kHz) (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz **330 mA to 1.1A** (10 to 45) Hz 45 to 1 kHz (1 to 5) kHz) (5 to 10) kHz **1.1 to 3 A** (10 to 45) Hz (45 Hz to 1kHz (1 to 5) kHz) (5 to 10) kHz **3 to 11 A** (45 to 100) Hz 100 Hz to 1 kHz (1 to 5) kHz **(11 to 20.5) A** (45 to 100) Hz 100 Hz to 1 kHz (1 to 5) kHz **(20.5 to 1 000) A** (45 to 65) Hz	 1.8 mA/A + 2 µA 900 µA/A + 2 µA 400 µA/A + 2 µA 800 µA/A + 2 µA 2 mA/A + 3 µA 4 mA/A + 4 mA 1.8 mA/A + 20 µA 900 µA/A + 2 µA 400 µA/A + 2 µA 1 mA/A + 50 µA 2 mA/A + 100 µA 4 mA/A + 200 µA 1.8 mA/A + 100 µA 500 µA/A + 100 µA 6 mA/A + 100 µA 25 mA/A + 5 mA 1.8 mA/A + 100 µA 6 mA/A + 100 µA 6 mA/A + 1 mA 25 mA/A + 5 mA 600 µA/A + 2 mA 1 mA/A + 2 mA 30 mA/A + 2 mA 1.2 mA/A + 5 mA 1.5 mA/A + 5 mA 30 mA/A + 5 mA 1.2 mA/A + 5 mA	Fluke 5520A Fluke 5520A With coil	OEM or GIDEP Sourced or Wilmington Procedures
AC Current – Source	**(10 to 220) µA** (10 to 20) Hz (20 to 40) Hz 40 Hz to 1kHz (1 to 5) kHz (5 to 10) kHz	 250 µA/A + 16 nA 160 µA/A + 10 nA 120 µA/A + 8 nA 280 µA/A + 12 nA 1.1 mA/A + 65 nA	Fluke 5720A	

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PARAMETER/ EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
AC Current – Source (cont.)	**220 µA to 2.2 mA** (10 to 20) Hz (20 to 40) Hz 40 Hz to 1kHz (1 to 5) kHz (5 to 10) kHz **(2.2 to 22) mA** (10 to 20) Hz (20 to 40) Hz 40 Hz to 1kHz (1 to 5) kHz (5 to 10) kHz **(22 to 220) mA** (10 to 20) Hz (20 to 40) Hz 40 Hz to 1kHz (1 to 5) kHz (5 to 10) kHz **220 mA to 2.2 A** 20 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	 250 µA/A + 40 nA 160 µA/A + 35 nA 120 µA/A + 35 nA 200 µA/A + 110 nA 1.1 mA/A + 650 nA 250 µA/A + 400 nA 160 µA/A + 350 nA 120 µA/A + 350 nA 200 µA/A + 550 nA 1.1 mA/A + 5 µA 250 µA/A + 4 µA 160 µA/A + 3.5 µA 120 µA/A + 2.5 µA 200 µA/A + 3.5 µA 1.1 mA/A + 10 µA 260 µA/A + 35 µA 450 µA/A + 80 µA 7 mA/A + 160 µA	Fluke 5720A	OEM or GIDEP Sourced or Wilmington Procedures
Capacitance – Source	190 pF to 3.3 nF (3.3 to 11) nF (11 to 110) nF (110 to 330) nF 330 nF to 1.1 µF (1.1 to 3.3) µF (3.3 to 11) µF (11 to 33) µF (33 to 110) µF (110 to 330) µF 330 µF to 1.1 mF (1.1 to 3.3) mF (3.3 to 11) mF (11 to 33) mF (33 to 110) mF	5 mF/F + 10 pF 2.5 mF/F + 10 pF 2.5 mF/F + 100 pF 2.5 mF/F + 300 pF 2.5 mF/F + 1 nF 2.5 mF/F + 3 nF 2.5 mF/F + 10 nF 4 mF/F + 30 nF 4.5 mF/F + 100 nF 4.5 mF/F + 300 nF 4.5 mF/F + 1 µF 4.5 mF/F + 3 µF 4.5 mF/F + 10 µF 7.5 mF/F + 30 µF 11 mF/F + 100 µF	Fluke 5520A	
DC Voltage – Measure	Up to 100 mV 100 mV to 1 V (1 to 10)V (10 to 100)V 100 V to 1 kV	9 µV/V + 300 nV 8 µV/V + 300 nV 8 µV/V + 500 nV 10 µV/V + 30 µV 10 µV/V + 100 µV	HP 3458A	

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AC Voltage – Measure, (cont)	**Up to 10 mV**		HP 3458A	OEM or GIDEP Sourced or Wilmington Procedures
	(1 to 40) Hz	300 µV/V + 3 µV		
	40 Hz to 1 kHz	200 µV/V + 1.1 µV		
	(1 to 20) kHz	300 µV/V + 1.1 µV		
	(20 to 50) kHz	1 mV/V + 1.1 µV		
	(50 to 100) kHz	5 mV/V + 1.1 µV		
	(100 to 300) kHz	40 mV/V + 2 µV		
	(10 to 100) mV			
	(1 to 40) Hz	70 µV/V + 4 µV		
	40 Hz to 1 kHz	70 µV/V + 2 µV		
	(1 to 20) kHz	140 µV/V + 2 µV		
	(20 to 50) kHz	300 µV/V + 2 µV		
	(50 to 100) kHz	800 µV/V + 2 µV		
	(100 to 300) kHz	3 mV/V + 10 µV		
	300 kHz to 1 MHz	10 mV/V + 10 µV		
	(1 to 2) MHz	15 mV/V + 10 µV		
	100 mV to 1 V			
	(1 to 40) Hz	70 µV/V + 40 µV		
	40 Hz to 1 kHz	70 µV/V + 20 µV		
	(1 to 20) kHz	140 µV/V + 20 µV		
	(20 to 50) kHz	300 µV/V + 20 µV		
	(50 to 100) kHz	800 µV/V + 20 µV		
	(100 to 300) kHz	3 mV/V + 100 µV		
	300 kHz to 1 MHz	10 mV/V + 100 µV		
	(1 to 2) MHz	15 mV/V + 100 µV		
	(1 to 10) V			
	(1 to 40) Hz	70 µV/V + 400 µV		
	40 Hz to 1 kHz	70 µV/V + 200 µV		
	(1 to 20) kHz	140 µV/V + 200 µV		
	(20 to 50) kHz	300 µV/V + 200 µV		
	(50 to 100) kHz	800 µV/V + 20 µV		
	(100 to 300) kHz	3 mV/V + 1 mV		
	300 kHz to 1 MHz	10 mV/V + 1 mV		
	(1 to 2) MHz	15 mV/V + 1 mV		
	(10 to 100) V			
	(1 to 40) Hz	200 µV/V + 4 mV		
	40 Hz to 1 kHz	200 µV/V + 2 mV		
	(1 to 20) kHz	200 µV/V + 2 mV		
	(20 to 50) kHz	350 µV/V + 2 mV		
	(50 to 100) kHz	1.2 mV/V + 2 mV		
	(100 to 300) kHz	4 mV/V + 10 mV		
	300 kHz to 1 MHz	15 mV/V + 10 mV		

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PARAMETER/ EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
AC Voltage – Measure, (cont)	**100 V to 1 kV peak** (1 to 40) Hz 40 Hz to 1 kHz (1 to 20) kHz (20 to 50) kHz (50 to 100) kHz	400 µV/V + 40 mV 400 µV/V + 20 mV 600 µV/V + 20 mV 1.2 mV/V + 20 mV 3 mV/V + 20 mV	HP 3458A	OEM or GIDEP Sourced or Wilmington Procedures
DC Current – Measure	100 nA to 1 µA (1 to 10) µA (10 to 100) µA 100 µA to 1 mA (1 to 10) mA (10 to 100) mA 100 mA to 1A	20 µA/A + 40 pA 20 µA/A + 100 pA 20 µA/A + 800 pA 20 µA/A + 5 nA 20 µA/A + 50 nA 35 µ A/A + 500 nA 110 µA/A + 10 µA		
DC Resistance - Measure	10 Ω 100 Ω 1 kΩ 10 kΩ 100 kΩ 1 MΩ 10 MΩ 100 MΩ 1 GΩ	15 µΩ/Ω + 50 µΩ 12 µΩ/Ω + 500 µΩ 10 µΩ/Ω + 500 µΩ 10 µΩ/Ω + 5 mΩ 10 µΩ/Ω + 50 mΩ 15 µΩ/Ω + 2 Ω 50 µΩ/Ω + 100 Ω 500 µΩ/Ω + 1 kΩ 5 mΩ/Ω + 10 kΩ		
Phase- Generate	(10 to 65) Hz (65 to 500) Hz (0.5 to 1) kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.1 º 0.25 º 0.5 º 2.5 º 5 º 10 º	Fluke 5520A	
AC Power – Generate (45 to 65) Hz; PF = 1	100 W 1 kW 10 kW 100 kW	0.09 % of rdg 0.1 % of rdg 0.1 % of rdg 0.1 % of rdg		
Frequency - Source	10MHz 0.01 Hz to 2 MHz	<10 (-11) Locked 2.6 µHz/Hz + 5 µHz	Praecis CFR GPS Receiver Fluke 5520A - SC1100	

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PARAMETER/ EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Electrical Simulation Of Thermocouples				
Type E	(-250 to –100) ºC	0.5 ºC		
	(-100 to –25) ºC	0.16 ºC		
	(-25 to 350) ºC	0.14 ºC		
	(350 to 650) ºC	0.16 ºC		
	(650 to 1 000) ºC	0.21 ºC		
Type J	(-210 to –100) ºC	0.27 ºC		
	(-100 to –30) ºC	0.16 ºC		
	(-30 to 150) ºC	0.14 ºC		
	(150 to 760) ºC	0.17 ºC		
	(760 to 1 200) ºC	0.23 ºC		
Type K	(-200 to –100) ºC	0.33 ºC		
	(-100 to –25) ºC	0.18 ºC		
	(-25 to 120) ºC	0.16 ºC	Fluke 5520A	OEM or GIDEP Sourced or Wilmington Procedures
	(120 to 1 000) ºC	0.26 ºC		
	(1 000 to 1 372) ºC	0.4 ºC		
Type R	(0 to 250) ºC	0.57 ºC		
	(250 to 400) ºC	0.35 ºC		
	(400 to 1 000) ºC	0.33 ºC		
	(1 000 to 1 767) ºC	0.4 ºC		
Type S	(0 to 250) ºC	0.47 ºC		
	(250 to 1 000) ºC	0.36 ºC		
	(1 000 to 1 400) ºC	0.37 ºC		
	(1 400 to 1 767) ºC	0.46 ºC		
Type T	(-250 to –150) ºC	0.63 ºC		
	(-150 to 0) ºC	0.24 ºC		
	(0 to 120) ºC	0.16 ºC		
	(120 to 400) ºC	0.14 ºC		

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Electrical Simulation of RTDs				
Pt 385 (100 Ω)	(-200 to 0) ºC	0.05 ºC		
	(0 to 100) ºC	0.07 ºC		
	(100 to 300) ºC	0.09 ºC		
	(300 to 400) ºC	0.1 ºC		
	(400 to 630) ºC	0.12 ºC		
	(630 to 800) ºC	0.23 ºC		
Pt 385 (200Ω)	(-200 to 100) ºC	0.04 ºC		
	(100 to 260) ºC	0.05 ºC		
	(260 to 300) ºC	0.12 ºC		
	(300 to 400) ºC	0.13 ºC		
	(400 to 600) ºC	0.14 ºC		
	(600 t0 630) ºC	0.16 ºC		
Pt 385 (500 Ω)	(-200 to –80) ºC	0.04 ºC		
	(-80 to 100) ºC	0.05 ºC		
	(100 to 260) ºC	0.06 ºC		
	(260 to 400) ºC	0.08 ºC		
	(400 to 600) ºC	0.09 ºC		OEM or GIDEP Sourced or Wilmington Procedures
	(600 to 630) ºC	0.11 ºC	Fluke 5520A	
Pt 385 (1 000Ω)	(-200 to 0) ºC	0.03 ºC		
	(0 to 100) ºC	0.04 ºC		
	(100 to 260) ºC	0.05 ºC		
	(260 to 300) ºC	0.06 ºC		
	(300 to 600) ºC	0.07 ºC		
	(600 to 630) ºC	0.23 ºC		
Pt 3916 (100Ω)	(-200 to -190) ºC	0.25 ºC		
	(-190 to –80) ºC	0.04 ºC		
	(-80 to 0) ºC	0.05 ºC		
	(0 to 100) ºC	0.06 ºC		
	(100 to 260) ºC	0.07 ºC		
	(260 to 300) ºC	0.08 ºC		
	(300 to 400) ºC	0.09 ºC		
	(400 to 600) ºC	0.1 ºC		
	(600 to 630) ºC	0.23 ºC		
Pt 3926 (100Ω)	(-200 to 0) ºC	0.05 ºC		
	(0 to 100) ºC	0.07 ºC		
	(100 to 300) ºC	0.09 ºC		
	(300 to 400) ºC	0.1 ºC		
	(400 to 630) ºC	0.12 ºC		

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Oscilloscopes DC Signal into 50 Ω Load into 1 MΩ Load Amplitude Square Wave 50 Ω Load 1 MΩ Load Leveled Sine Wave Flatness (Relative to 50 kHz Time Mark into 50 Ω Edge Spec into 50Ω Load: Rise Time Amplitude (P to P) Frequency	 0 to 6.6 V 0 to 130 V **1 mV to 6.6 V** (10 Hz to 10 kHz) 1 mV to 130 V p-p (10 Hz to 10 kHz) **5 mV to 5.5 V** 50 kHz to 100 MHz (100 to 300) MHz (300 to 600) MHz **5 mV to 3.5 V** (600 to 1 100) MHz 5s to 50 ms 20 ms to 100 ns (50 to 20 ns 10 ns (5 to 1) ns ≤350 ps 5 mV to 2.5 V 1 kHz to 10 MHz	 2.5 mV/V + 40 µV 500 µV/V + 40 µV 2.5 mV/V + 40 µV 1 mV/V + 40 µV 15 mV/V + 100 µV 20 mV/V + 100 µV 40 mV/V + 100 µV 50 mV/V + 100 µV (25 + 1 000t) µs/s 2.5 µs/s 2.5 µs/s 2.5 µs/s 2.5 µs/s 3.5 % 20 mV/V + 200 µV 2.5 µs/s of setting	Fluke 5520A/SC1100	OEM or GIDEP Sourced or Wilmington Procedures

II. Mechanical

PARAMETER/ EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Pressure-Hydraulic	(50 to 300) psi (300 to 500) psi (500 to 1 000 psi (1 000 to 2 000) psi (2 000 to 5 000) psi (5 000 to 10 000) psi	0.035 psi 0.053 psi 0.15 psi 0.24 psi 0.53 psi 1.05 psi	Ruska 2400	OEM or GIDEP Sourced or Wilmington Procedures

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PARAMETER/ EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Pressure- Pneumatic	(5 to 30) in Hg (10 to 100) psi (100 to 300) psi (300 to 400) psi (400 to 500) psi	0.0064 in Hg 0.01 psi 0.03 psi 0.037 psi 0.045 psi	Pressurements P3025-3	OEM or GIDEP Sourced or Wilmington Procedures

III. Thermodynamic

PARAMETER/ EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Temperature - Measure	(- 200 to – 80) ºC (- 80 to 0) ºC (0 to 100) ºC (100 to 200) ºC (200 to 400) ºC (400 to 500) ºC (500 to 600) ºC	0.013 ºC 0.01 ºC 0.011ºC 0.017 ºC 0.021 ºC 0.036 ºC 0.045 ºC	Hart 5628/Hart 2560	OEM or GIDEP Sourced or Wilmington Procedures
Temperature - Source	(-196 to -80) ºC (-80 to 0) °C (0 to 100) ºC (100 to 200) ºC (200 to 300) °C (300 to 400) °C (400 to 500) °C (500 to 600) °C	0.014 ºC 0.025 °C 0.012 ºC 0.021 ºC 0.012 ºC 0.61 ºC 0.71 ºC 0.81°C	Hart 7380, 6022 Hart 5628/Hart 2560	

Notes: *1. Calibration and Measurement Capabilities (Expanded Uncertainties) are based on approximately a 95% confidence interval, using a coverage of k=2.*
2. This scope is part of and must be included with the Certificate of Accreditation No.AC-1577.

Vice President

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