



ISO/IEC 17025:1999  
ISO 9002:1994

## Scope of Accreditation

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### CALIBRATION LABORATORIES

NVLAP LAB CODE 200108-0

#### HONEYWELL FM&T METROLOGY

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**NVLAP Code:** 20/A01

ANSI/NCSL Z540-1-1994; Part 1

Compliant

#### DIMENSIONAL

**NVLAP Code:** 20/D01  
Angle Blocks

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
up to 45°	1.1 arc seconds	Comparison Method
Autocollimators		
0 to 600 arc seconds	(0.3 arc seconds + 0.25% of angle)	Small Angle Generator
Index Table/Polygons		
0 to 360° (in 10° or 30° increments)	0.6 arc seconds	3 Stack Method

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### HONEYWELL FM&T METROLOGY

#### Optical Comparators

Length up to 12 in	(200 + 30L) $\mu\text{in}^{\text{note } 2}$	Magnifications Standard
Angle 0 to 360°	0.1°	Angle Blocks

#### NVLAP Code: 20/D03 Gage Blocks

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1, 4</sup></i>	<i>Remarks</i>
< 0.04 in	2.6 $\mu\text{in}$	Comparison
0.04 in to 4 in	(2.4 + 0.5L) $\mu\text{in}^{\text{note } 2}$	Comparison
> 4 in to 20 in	(5.3 + 0.5L) $\mu\text{in}^{\text{note } 2}$	Comparison
< 1 mm	0.07 $\mu\text{m}$	Comparison
1 mm to 100 mm	(0.06 + 0.5L) $\mu\text{m}^{\text{note } 3}$	Comparison
> 100 mm to 500 mm	(0.13 + 0.5L) $\mu\text{m}^{\text{note } 3}$	Comparison

#### NVLAP Code: 20/D04 Laser Frequency/Wavelength

<i>Laser Type</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
HeNe (632.991370 nm)	0.05 ppm	Comparison

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### HONEYWELL FM&T METROLOGY

*NVLAP Code:* 20/D05

Length

Stage Micrometers (Chrome on Glass)

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0 to 2 in	18 $\mu$ in	Laser Interferometer with Vision System

Unidirectional Step Gages

0 to 24 in	(20 + 1L) <sup>note 2</sup>	CMM with Bi-swing Probe
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Inspection Masters

0 to 2 in	Length 18 $\mu$ in	Laser Interferometer with Vision System
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>2 in to 12 in	Length 32 $\mu$ in	Laser Interferometer with Vision System
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Perpendicularity 8 ppm	CMM with Video Probe
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Magnification Scales

up to 24 in	0.0003 in	CMM with Video Probe
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### HONEYWELL FM&T METROLOGY

**NVLAP Code:** 20/D07  
Thread Measuring Wires

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
All 29° and 60° Wires	8.0 $\mu$ in	Direct Measurement

**NVLAP Code:** 20/D08  
Optical Reference Planes  
Optical Flats, Mirrors

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0 to 12 in	1.2 $\mu$ in	3 Flat Method
0 to 10 in	2.0 $\mu$ in	Interferometer Method
0 to 12 in	4.0 $\mu$ in	Comparison to Master

**NVLAP Code:** 20/D09  
Roundness

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
up to 18 in Diameter	3 $\mu$ in	Roundness Machine

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### HONEYWELL FM&T METROLOGY

**NVLAP Code:** 20/D11

Spherical Diameter  
Master Balls

**Range**

1/16 in to 1.0 in  
( 1mm to 25 mm)

**Best Uncertainty ( $\pm$ )<sup>note 1</sup>**

12  $\mu$ in

**Remarks**

Comparison to Master

Calibration Spheres

to 1 in (25 mm)

11  $\mu$ in Diameter

5  $\mu$ in Sphericity

Comparison to Master

Roundness

OD Micrometers

up to 3 in

(0.0002 + L/50000) in<sup>note 2</sup>

Micrometer Master

**NVLAP Code:** 20/D12

Surface Plates

**Range**

Up to 8 ft Diagonal

**Best Uncertainty ( $\pm$ )<sup>note 1</sup>**

(30  $\mu$ in + 2  $\mu$ in/ft<sup>2</sup>)

**Remarks**

Moody and Least Squares  
Method with Autocollimator

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**HONEYWELL FM&T METROLOGY**

*NVLAP Code: 20/D14*

Plain Plug Gages

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0 to 1 in	7.3 $\mu$ in	Comparison to Master
Plain Ring Gages		
0 to 1 in	9 $\mu$ in	Comparison

Threaded Plug Gages - Pitch and Major Diameter per ASME B1.2, ASME B1.16M or ASME B1.5

up to 1 in	P.D. 0.0001 in M.D. 0.000035 in	3 - Wire P.D. Measurement
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Adj. - Thread Ring Gages - Functional Threads per ASME B1.2 (UN or UNR Thread Form), ASME B1.15 (UNJ Threads)

up to 1 in	P.D. functional 0.0002 in M.D. 0.0001 in	Set to 'W' Thread Set Master
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### HONEYWELL FM&T METROLOGY

Thread Set Plugs - Pitch and Major Diameter per ASME B1.2, ASME B1.16M or ASME B1.5

up to 1 in

P.D. 0.000035 in

3 - Wire P.D. Measurement

M.D. 0.000020 in

**NVLAP Code:** 20/D15

2-D Ball Plates

**Range**

**Best Uncertainty** ( $\pm$ )<sup>note 1</sup>

**Remarks**

36 in x 36 in

(20  $\mu$ in + 1L)<sup>note 2</sup>

CMM Single - Axial Method

**NVLAP Code:** 20/D16

Coordinate Measuring Machines

**Range**

**Best Uncertainty** ( $\pm$ )<sup>note 1,2</sup>

**Remarks**

To 120 x 120 x 120 in

Axial (10 + 0.5L)  $\mu$ in

Parametrical Calibration

Planar (60 + 2.0L)  $\mu$ in

To 24 in Volumetric

Axial (50 + 5L)  $\mu$ in

Step Gage

Diagonals

Planar (60 + 9L)  $\mu$ in

Step Gage

Spatial (70 + 10L)  $\mu$ in

Step Gage

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#### HONEYWELL FM&T METROLOGY

To 56 in Volumetric	Axial (60 + 3L) $\mu\text{in}$	1-D Ball Plates
Diagonals	Spatial (70 + 3L) $\mu\text{in}$	1-D Ball Plates
To 36 in Volumetric	Axial (50 + 5L) $\mu\text{in}$	2-D Ball Plates
Diagonals	Planar (50 + 7L) $\mu\text{in}$	2-D Ball Plates
	Spatial (50 + 9L) $\mu\text{in}$	

#### ELECTROMAGNETICS - DC/LOW FREQUENCY

NVLAP Code: 20/E05

DC Resistance

Range	Best Uncertainty ( $\pm$ ) in ppm <sup>note 1</sup>	Remarks
0.001 $\Omega$	3.6	Comparison Method
0.01 $\Omega$	3.6	Comparison Method
0.1 $\Omega$	3.6	Comparison Method
1 $\Omega$	0.5	Comparison Method
10 k $\Omega$	1.9	Comparison Method
1 $\Omega$ to 100 $\Omega$	3.6	Comparison Method

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100 $\Omega$ to 1 M $\Omega$	3.6	Comparison Method
10 <sup>7</sup> $\Omega$	13.4	Comparison Method
10 <sup>8</sup> $\Omega$	16.7	Comparison Method

**NVLAP Code:** 20/E06  
DC Voltage

<b>Range</b>	<b>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></b>	<b>Remarks</b>
1.018 V	0.41	Comparison Method
10.00 V	0.45	Comparison Method
1.000 V	3.1	Comparison Method
10.00 V	3.1	Comparison Method
100.0 V	3.1	Comparison Method
1000.0 V	3.1	Comparison Method
10.0 kV	137	Comparison Method
100.0 kV	150	Comparison Method
150.0 kV	260	Comparison Method

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### HONEYWELL FM&T METROLOGY

*NVLAP Code:* 20/E09

LF AC Voltage

*Best Uncertainty (±) in ppm +  $\mu V$ <sup>note 1</sup>*

Range	10 Hz to 20Hz	20 Hz to 40 Hz	40 Hz to 20 KHz	20 KHz to 50 KHz	50 KHz to 100 KHz	100 KHz to 300 KHz	300 KHz to 500 KHz	500 KHz to 1 MHz
2.2 mV	1700 + 1.3	740 + 1.3	420 + 1.3	810 + 2.0	1200 + 2.5	2300 + 4.0	2400 + 8.0	3500 + 8.0
7 mV	850 + 1.3	370 + 1.3	210 + 1.3	400 + 2.0	600 + 2.5	1200 + 4.0	1300 + 8.0	2300 + 8.0
22 mV	290 + 1.3	190 + 1.3	110 + 1.3	210 + 2.0	310 + 2.5	810 + 4.0	890 + 8.0	1700 + 8.0
70 mV	240 + 1.5	120 + 1.5	100 + 1.5	130 + 2.0	260 + 2.5	510 + 4.0	670 + 8.0	1100 + 8.0
220 mV	210 + 1.5	100 + 1.5	100 + 1.5	100 + 2.0	160 + 2.5	250 + 4.0	380 + 8.0	1000 + 8.0
700 mV	210 + 1.5	100 + 1.5	100 + 1.5	100 + 2.0	150 + 2.5	200 + 4.0	350 + 8.0	960 + 8.0
2.2 V	200	100	100	100	150	200	300	1200
7 V	200	100	100	100	150	200	400	1200
22 V	200	100	100	100	150	200	400	1200
70 V	200	100	100	100	150	200	410	1200
220 V	200	100	100	100	150	400	500	
700 V	200	100	100	200	500			
1000 V	200	100	100	200	800			

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#### HONEYWELL FM&T METROLOGY

**NVLAP Code:** 20/E10  
LF Capacitance

Range	Best Uncertainty ( $\pm$ ) <sup>note 1</sup>	Remarks
0.01 pF to 1000 pF	(66.7 ppm + 0.000033 pF)	GR1615 @ 1kHz Direct Measurement

**NVLAP Code:** 20/E11  
LF Inductance

Range	Best Uncertainty ( $\pm$ ) % of Reading <sup>note 1</sup>			Remarks
	100 Hz	1 kHz	10 kHz	
100 $\mu$ H	0.11%	0.11	0.11	Comparison Method
200 $\mu$ H		0.05	0.05	Comparison Method
500 $\mu$ H		0.04	0.06	Comparison Method
1 mH	0.04	0.04	0.06	Comparison Method
5 mH		0.04	0.07	Comparison Method
10 mH	0.04	0.04	0.05	Comparison Method
20 mH		0.04	0.06	Comparison Method
50 mH			0.05	Comparison Method
100 mH	0.03	0.04	0.05	Comparison Method

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200 mH	0.04	0.04	Comparison Method
500 mH	0.05	0.05	Comparison Method
1 H	0.03	0.05	Comparison Method
2 H		0.05	Comparison Method
5 H		0.09	Comparison Method
10 H	0.03	0.15	Comparison Method

**NVLAP Code:** 20/E18  
Resistive Dividers

<b>Range</b>	<b>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></b>	<b>Remarks</b>
0 to 1500 V	2	Ratio Measurement
0 to 10 kV	37	Ratio Measurement

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### HONEYWELL FM&T METROLOGY

#### TIME AND FREQUENCY

*NVLAP Code:* 20/F01  
Frequency Dissemination

	<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
Frequency	0.1 MHz	1 x 10 <sup>-11</sup>	
Frequency	1.0 MHz	1 x 10 <sup>-11</sup>	
Frequency	10.0 MHz	1 x 10 <sup>-11</sup>	

*NVLAP Code:* 20/F01  
Frequency Counters

	<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
Internal Oscillator	(1 to 10) MHz	1.01 x 10 <sup>-11</sup>	
Frequency	1.0 Hz to 50 GHz	(0.001 to 0.012) ppm + 1 LSD	
Time	10 ns to 10 s	(0.001 to 0.012) ppm + 1 LSD	

*NVLAP Code:* 20/F01  
Stopwatches and Timers

	<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
Time	1 day	0.053 s/day + 1 LSD	

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### HONEYWELL FM&T METROLOGY

**NVLAP Code:** 20/F01  
Generator Frequency

	<b>Range</b>	<b>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></b>	<b>Remarks</b>
Internal Oscillator	10 Mhz	$1.01 \times 10^{-11}$	
Frequency	1 Hz to 50 Ghz	(0.001 to 0.012) ppm	

### MECHANICAL

**NVLAP Code:** 20/M03  
Airspeed

<b>Range in fpm</b>	<b>Best Uncertainty (<math>\pm</math>) % of Reading<sup>note 1</sup></b>	<b>Remarks</b>
50 to 9500	6	

**NVLAP Code:** 20/M05  
Flow

<b>Range</b>	<b>Best Uncertainty (<math>\pm</math>) % of Reading<sup>note 1</sup></b>	<b>Remarks</b>
8 sccm to 100,000 sccm	0.6	Piston Prover

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*NVLAP Code:* 20/M06

Force

**Range**

**Best Uncertainty ( $\pm$ ) in %<sup>note 1</sup>**

**Remarks**

5 lbf thru 2400 lbf

0.01

Deadweight,  
Uncertainty  
of Applied Force

> 2400 lbf thru 100000 lbf

0.015

Proving Ring,  
Uncertainty  
of Range

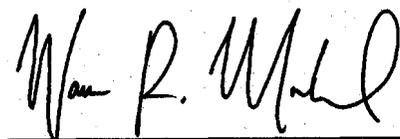
> 100000 lbf thru 300000 lbf

0.035

Proving Ring,  
Uncertainty  
of Range

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### HONEYWELL FM&T METROLOGY

*NVLAP Code: 20/M08*

Mass

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in mg<sup>note 1</sup></i>	<i>Method</i>
5 kg	10.97	Direct-Reading Weighing
3 kg	8.35	Direct-Reading Weighing
2 kg	8.68	Direct-Reading Weighing
1 kg	4.514	Direct-Reading Weighing
500 g	2.574	Direct-Reading Weighing
300 g	1.921	Direct-Reading Weighing
200 g	0.6285	Direct-Reading Weighing
100 g	0.3535	Direct-Reading Weighing
50 g	0.2178	Direct-Reading Weighing
30 g	0.1649	Direct-Reading Weighing
20 g	0.0935	Direct-Reading Weighing
10 g	0.0508	Direct-Reading Weighing
5 g	0.0295	Direct-Reading Weighing
3 g	0.0210	Direct-Reading Weighing
2 g	0.0169	Direct-Reading Weighing

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1 g	0.0184	Direct-Reading Weighing
500 mg	0.0126	Direct-Reading Weighing
300 mg	0.0107	Direct-Reading Weighing
200 mg	0.0100	Direct-Reading Weighing
100 mg	0.0093	Direct-Reading Weighing
50 mg	0.0090	Direct-Reading Weighing
30 mg	0.0089	Direct-Reading Weighing
20 mg	0.0015	Single Substitution Comparison to Reference Weights
10 mg	0.0016	Single Substitution Comparison to Reference Weights
5 mg	0.0014	Single Substitution Comparison to Reference Weights
3 mg	0.0012	Single Substitution Comparison to Reference Weights
2 mg	0.0012	Single Substitution Comparison to Reference Weights
1 mg	0.0012	Single Substitution Comparison to Reference Weights
10 lb	10.34	Direct-Reading Weighing

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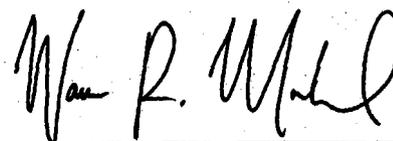
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8 lb	9.14	Direct-Reading Weighing
5 lb	9.82	Direct-Reading Weighing
4 lb	7.90	Direct-Reading Weighing
3 lb	6.00	Direct-Reading Weighing
2 lb	4.139	Direct-Reading Weighing
1 lb	2.411	Direct-Reading Weighing
0.5 lb	1.727	Direct-Reading Weighing
0.3 lb	0.452	Direct-Reading Weighing
0.2 lb	0.328	Direct-Reading Weighing
0.1 lb	0.205	Direct-Reading Weighing
0.05 lb	0.146	Direct-Reading Weighing
0.03 lb	0.0662	Direct-Reading Weighing
0.02 lb	0.0468	Direct-Reading Weighing
0.01 lb	0.0275	Direct-Reading Weighing
0.005 lb	0.0351	Direct-Reading Weighing
0.003 lb	0.0230	Direct-Reading Weighing
0.002 lb	0.0173	Direct-Reading Weighing

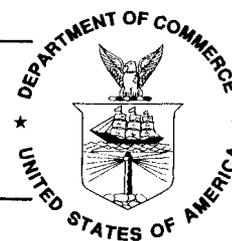
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0.001 lb	0.0122	Direct-Reading Weighing
10 oz	1.874	Direct-Reading Weighing
8 oz	1.727	Direct-Reading Weighing
6 oz	0.546	Direct-Reading Weighing
5 oz	0.468	Direct-Reading Weighing
4 oz	0.390	Direct-Reading Weighing
3 oz	0.313	Direct-Reading Weighing
2 oz	0.2358	Direct-Reading Weighing
1 oz	0.1606	Direct-Reading Weighing
1/2 oz	0.0686	Direct-Reading Weighing
1/4 oz	0.0384	Direct-Reading Weighing
1/8 oz	0.0233	Direct-Reading Weighing
1/16 oz	0.0284	Direct-Reading Weighing
1/32 oz	0.0170	Direct-Reading Weighing
1/64 oz	0.0121	Direct-Reading Weighing

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**NVLAP Code:** 20/M11

Vibration/Acceleration

<i>Range</i>	<i>Best Uncertainty (±) in %<sup>note 1</sup></i>
0.3 g @ 10 Hz thru 40 Hz	2.5
1 g @ 10 Hz thru 100 Hz	2.5
2 g @ 10 Hz thru 100 Hz	2.5
5 g @ 100 Hz	2.5
10 g @ 30 Hz thru <100 Hz	2.5
10 g @ 100 Hz thru 2000 Hz	1.8
10 g @ > 2000 Hz thru 10000 Hz	2.5

Shock

10 g thru 10000 g @ 10 Hz thru 10000 Hz	3.5
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**NVLAP Code:** 20/M14

Tachometers

<i>Range</i>	<i>Best Uncertainty (±)<sup>note 1</sup></i>	<i>Remarks</i>
(1.5 rpm to 10,000) rpm	(0.052 to 10.2) rpm	

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### HONEYWELL FM&T METROLOGY

#### RF MICROWAVE

*NVLAP Code:* 20/R01

Coaxial Air Line Standards

Air Lines (Air-Dielectric)

<i>Connector Type</i>	<i>Quantity</i>	<i>Range</i>	<i>Frequency (Hz)</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>
GR-900	Impedance	50 $\Omega$	50 M to 8.5 G	(0.028 to 0.050) $\Omega$
APC-7	Impedance	50 $\Omega$	50 M to 18.0 G	(0.045 to 0.082) $\Omega$
N	Impedance	50 $\Omega$	50 M to 18.0 G	(0.047 to 0.210) $\Omega$
APC-3.5	Impedance	50 $\Omega$	50 M to 26.5 G	(0.069 to 0.176) $\Omega$
GR-900	Electrical Length	3 cm to 30 cm	50 M to 8.5 G	(0.0017) to 0.012) $\Omega$
APC-7	Electrical Length	3 cm to 30 cm	50 M to 18.0 G	(0.0018 to 0.042) $\Omega$
N	Electrical Length	3 cm to 30 cm	50 M to 18.0 G	(0.0018 to 0.042) $\Omega$
APC-3.5	Electrical Length	5 cm to 15 cm	50 M to 26.5 G	(0.0018 to 0.042) $\Omega$

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GR-900, 7 mm, N, & 3.5 mm	Diameter	(0.15 to 1.5) cm	(0.00013 to 0.00045) cm
GR-900, 7 mm, N, & 3.5 mm	Physical Length	(3 to 30) cm	(0.0010 to 0.0026) cm

**NVLAP Code:** 20/R02  
Coaxial/Waveguide Terminations

Reflection Coefficient (Scattering Parameter  $S_{ii}$ ) on a Vector Automatic Network Analyzer

<b>Connector Type</b>	<b>Quantity</b>	<b>Range</b>	<b>Frequency in Hz</b>	<b>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></b>
GR-900	$ S_{ii} $	0 to 1	300 k to 8.5 G	0.004 to 0.009
APC-7	$ S_{ii} $	0 to 1	300 k to 18.0 G	0.003 to 0.030
N	$ S_{ii} $	0 to 1	300 k to 18.0 G	0.0045 to 0.030
APC-3.5	$ S_{ii} $	0 to 1	50 M to 26.5 G	0.008 to 0.045
GR-900	ARG ( $S_{ii}$ )	$-180^\circ$ to $180^\circ$ , $0 <  S_{ii}  < 1$	300 k to 8.5 G	(0.52 to $180^\circ$ )

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### HONEYWELL FM&T METROLOGY

APC-7	ARG ( $S_{ii}$ )	$-180^\circ$ to $180^\circ$ , $0 <  S_{ii}  < 1$	300 k to 18.0 G	(0.32 to 180) $^\circ$
N	ARG ( $S_{ii}$ )	$-180^\circ$ to $180^\circ$ , $0 <  S_{ii}  < 1$	300 k to 18.0 G	(1.0 to 180) $^\circ$
APC-3.5	ARG ( $S_{ii}$ )	$-180^\circ$ to $180^\circ$ , $0 <  S_{ii}  < 1$	50 M to 26.5 G	(1.15 to 180) $^\circ$

**NVLAP Code:** 20/R12  
RF/Microwave Bolometer Units

Thermistor Mounts

Connector Type	Quantity	Range	Frequency Range	Best Uncertainty ( $\pm$ ) <sup>note 1</sup>
N	Calibration Factor	(-10 dBm to + 10 dBm)	1 MHz to 8.5 GHz	(1.25 to 3.0)%

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### HONEYWELL FM&T METROLOGY

**NVLAP Code:** 20/R13

RF/Microwave Attenuators

Attenuation (Scattering Parameter  $S_{ii}$ ) on a Vector Automatic Network Analyzer

<b>Connector Type</b>	<b>Quantity</b>	<b>Range in dB</b>	<b>Frequency in Hz</b>	<b>Best Uncertainty (<math>\pm</math>) in dB<sup>note 1</sup></b>
7 mm	$ S_{ii} $	(0 to 70)	300 k to 18.0 G	(0.02 to 1.1)
APC-3.5	$ S_{ii} $	(0 to 70)	50 M to 26.5 G	(0.02 to 1.1)

**NVLAP Code:** 20/R16

Group Delay

<b>Connector Type</b>	<b>Quantity</b>	<b>Range</b>	<b>Frequency</b>	<b>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></b>
GR-900, 7 mm, N, 3.5mm	Delay	(1 to 1200) ns	(0.05 to 2.0) GHz	(0.02 to 2.0) ns

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### HONEYWELL FM&T METROLOGY

*NVLAP Code: 20/R17*

RF/Microwave Power Meters

CW Microwave Power Meter

<i>Connector Type</i>	<i>Quantity</i>	<i>Range in dBm</i>	<i>Frequency in Hz</i>	<i>Best Uncertainty (<math>\pm</math>) in dB<sup>note 1</sup></i>
N	Power	(-60 to -20)	10 M to 8.5 G	(0.13 to 0.14)
N	Power	(-20 to +20)	100 k to 8.5 G	(0.10 to 0.18)

*NVLAP Code: 20/R17*

RF/Microwave Power Meters

Peak Power Meter

<i>Connector Type</i>	<i>Quantity</i>	<i>Range in dBm</i>	<i>Frequency Range</i>	<i>Best Uncertainty in dB (<math>\pm</math>)<sup>note 1</sup></i>
N	Peak Power	(-20 to +20)	(1.0 to 2.0) GHz	0.3

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### HONEYWELL FM&T METROLOGY

#### THERMODYNAMICS

*NVLAP Code:* 20/T03  
Laboratory Thermometers

<i>Range in °C</i>	<i>Best Uncertainty (±) °C<sup>note 1</sup></i>	<i>Remarks</i>
-60 to 260	0.03	Comparison to SPRTS
> 260 to 420	0.06	

*NVLAP Code:* 20/T04  
Leak Artifacts

<i>Range</i>	<i>Best Uncertainty (±) % of Reading<sup>note 1</sup></i>	<i>Remarks</i>
10 x 10 <sup>-7</sup> cc/sec STP	6	Comparison Method Helium
10 x 10 <sup>-8</sup> cc/sec STP	5.1	Comparison Method Helium
10 x 10 <sup>-9</sup> cc/sec STP	6	Comparison Method Helium
10 x 10 <sup>-10</sup> cc/sec STP	7.5	Comparison Method Helium
10 x 10 <sup>-6</sup> cc/sec STP	4	Comparison Method Argon

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### HONEYWELL FM&T METROLOGY

10 x 10 <sup>-8</sup> cc/sec STP	5.2	Comparison Method Argon
10 x 10 <sup>-2</sup> cc/sec STP to 10 x 10 <sup>-8</sup> cc/sec STP	6.7	Rate of Rise Method

**NVLAP Code:** 20/T05  
Pressure

<b>Range</b>	<b>Best Uncertainty (<math>\pm</math>)% of Reading<sup>note 1</sup></b>	<b>Remarks</b>
0 to 500 psia	0.015	
> 500 psia to 12000 psia	0.06	
0 to 500 psig	0.015	
> 500 psig to 12000 psig	0.06	
> 12,000 psig to 100,000 psig	0.07	
0.002 psid to 500 psid	0.08	

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### HONEYWELL FM&T METROLOGY

**NVLAP Code:** 20/T07

SPRT

<b>Range in °C</b>	<b>Best Uncertainty (±) in °C<sup>note 1</sup></b>	<b>Remarks</b>
-40 to 420	0.005	Fixed Point Cell
-190 to -40	0.020	

**NVLAP Code:** 20/T08

Thermocouples

<b>Range in °C</b>	<b>Best Uncertainty (±) °C<sup>note 1</sup></b>	<b>Remarks</b>
0 to 483	1.1 or 0.4% of reading whichever is greater	Type J
0 to 1090	1.1 or 0.4% of reading whichever is greater	Type K
-73 to 260	0.5 or 0.4% of reading whichever is greater	Type T

1. Represents an expanded uncertainty using a coverage factor, k=2.
2. L is in inches.
3. L is in meters.
4. Best uncertainty is for steel blocks.
5. Best uncertainty is the uncertainty of the applied force. Artifact uncertainty is determined by the statistics of the test and the artifact under test

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