

6. TECHNICAL DATA

Equipment Ratings:

- Pollution degree 2;
- Installation category II;
- Altitude 2000m;
- Humidity: Maximum 80% for temperatures up to 31°C decreasing linearly to 50% at 40°C; non-condensing;
- Electrical supply: Rated 12VDC 500mA for use with a Certified/Listed power adapter or battery operated;
- Indoor use only;
- Temperature range: 10°C to 40°C, Approved models (M) 0°C to 40°C
- The mains supply voltage fluctuations are not to exceed $\pm 10\%$ of the nominal supply voltage.

6.1 Specifications

Non-approved Models

Model	NV123	NV223	NV323	NV222	NV422	NV622	NV1202
Capacity (g)	120	220	320	220	420	620	1200
Readability (g)	0.001	0.001	0.001	0.01	0.01	0.01	0.01
Repeatability (Std. Dev.)	2d	2d	2d	1d	2d	2d	2d
Linearity	±3d	±5d	±5d	±2d	±2d	±2d	±3d
Span Calibration Mass (Not Included)	100	200	300	200	200	300	1000
Linearity Calibration Mass	50, 100 g	100, 200 g	150, 300 g	100, 200 g	200, 400 g	300, 600 g	500 g, 1 kg
Stabilization Time (s)	2.5			1	1.5	1.5	2
Construction	ABS housing & stainless steel pan						
Draftshield	Yes		No				
Calibration	User-selectable external span or linearity calibration/Digital with external weight						
Tare Range	Full capacity by subtraction						
Weighing Units**	g, kg, N, oz, ozt, dwt, lb, lb:oz, ct, grain, tael, (3), Tical, Tola						
Application Modes	Weighing, Parts Counting, Percent Weighing, Checkweighing						
Power Requirement	AC adapter (included) or 4 C batteries (not included)						
Typical Battery Life	200 hours		270 hours			200 hours	
Specified Temperature Range	10°C (50°F) to 40°C (104°F) at 10% to 85% relative humidity, non-condensing						
Storage Conditions	-20°C (-4°F) to 55°C (131°F) at 10% to 90% relative humidity, non-condensing						
Communication	RS232, USB, or Ethernet (available as accessories)						
Display Type	Liquid Crystal Display (LCD) with backlight						
Display Size	0.78 in / 20 mm digits						
Pan Size (W x D)	Ø3.7 in / Ø93 mm		Ø5.7 in / Ø145 mm			7.5 x 5.7 in / 190 x 144 mm	
Balance Dimensions (W x D x H)	204 x 230 x 107 mm with draft shield 204 x 230 x 74 mm without draft shield		8 x 9.1 x 2.8 in / 204 x 230 x 70 mm				
Shipping Dimensions (W x D x H)	15.2 x 13.2 x 6.7 in / 385 x 335 x 170 mm		11.8 x 9.8 x 5.3 in / 300 x 250 x 134 mm				
Net Weight	2.2 lb / 1.0 kg		2.2 lb / 1.0 kg				
Shipping Weight	3.3 lb / 1.5 kg		3.3 lb / 1.5 kg				

Model	NV2202	NV3202	NV221	NV621	NV1201	NV2201	NVT2201
Capacity (g)	2200	3200	220	620	1200	2200	2200
Readability (g)	0.01	0.01	0.1	0.1	0.1	0.1	0.1
Repeatability (Std. Dev.)	2d	2d	1d	1d	1d	1d	1d
Linearity	±5d	±5d	±2d	±2d	±2d	±2d	±2d
Span Calibration Mass (Not Included)	2000	3000	200	300	500	1000	1000
Linearity Calibration Mass	1 kg, 2 kg	1.5 kg, 3 kg	100, 200 g	300, 600 g	500 g, 1 kg	1 kg, 2 kg	1 kg, 2 kg
Stabilization Time (s)	2	2	1	1	1	1	1
Construction	ABS housing & stainless steel pan						
Draftshield	No						
Calibration	User-selectable external span or linearity calibration/Digital with external weight						
Tare Range	Full capacity by subtraction						
Weighing Units**	g, kg, N, oz, ozt, dwt, lb, lb:oz, ct, grain, taels (3), Tical, Tola						
Application Modes	Weighing, Parts Counting, Percent Weighing, Checkweighing						
Power Requirement	AC adapter (included) or 4 C batteries (not included)						
Typical Battery Life	200 hours		270 hours				
Specified Temperature Range	10°C (50°F) to 40°C (104°F) at 10% to 85% relative humidity, non-condensing						
Storage Conditions	-20°C (-4°F) to 55°C (131°F) at 10% to 90% relative humidity, non-condensing						
Communication	RS232, USB, or Ethernet (available as accessories)						
Display Type	Liquid Crystal Display (LCD) with backlight						
Display Size	0.78 in / 20 mm digits						
Pan Size (W x D)	7.5 x 5.7 in / 190 x 144 mm						9.1 x 6.9 in / 230 x 174 mm
Balance Dimensions (W x D x H)	8 x 9.1 x 2.8 in / 204 x 230 x 70 mm						9.5 x 9.8 x 2.9 in / 240 x 250 x 74 mm
Shipping Dimensions (W x D x H)	11.8 x 9.8 x 5.3 in / 300 x 250 x 134 mm						15.2 x 13.2 x 6.7 in / 385 x 335 x 170 mm
Net Weight	2.2 lb / 1.0 kg						3.3 lb / 1.5 kg
Shipping Weight	3.3 lb / 1.5 kg						5.1 lb / 2.3 kg

Model	NVT4201	NVT6201	NVT10201	NVT2200	NVT6200	NVT12000	NVT22000
Capacity (g)	4200	6200	10200	2200	6200	12000	22000
Readability (g)	0.1	0.1	0.1	1	1	1	1
Repeatability (Std. Dev.)	2d	2d	2d	2d	1d	1d	1d
Linearity	±2d	±2d	±2d	±2d	±2d	±2d	±2d
Span Calibration Mass (Not Included)	2000	5000	5000	1000	5000	5000	10000
Linearity Calibration Mass	2 kg, 4 kg	3 kg, 6 kg	5 kg, 10 kg	1 kg, 2 kg	3 kg, 6 kg	5 kg, 10 kg	10 kg, 20 kg
Stabilization Time (s)	1.5	1.5	1.5	1	1	1	1
Construction	ABS housing & stainless steel pan						
Draftshield	No						
Calibration	User-selectable external span or linearity calibration/Digital with external weight						
Tare Range	Full capacity by subtraction						
Weighing Units**	g, kg, N, oz, ozt, dwt, lb, lb:oz, ct, grain, taels (3), Tical, Tola						
Application Modes	Weighing, Parts Counting, Percent Weighing, Checkweighing						
Power Requirement	AC adapter (included) or 4 C batteries (not included)						
Typical Battery Life	270 hours	200 hours	270 hours				
Specified Temperature Range	10°C (50°F) to 40°C (104°F) at 10% to 85% relative humidity, non-condensing						
Storage Conditions	-20°C (-4°F) to 55°C (131°F) at 10% to 90% relative humidity, non-condensing						
Communication	RS232, USB, or Ethernet (available as accessories)						
Display Type	Liquid Crystal Display (LCD) with backlight						
Display Size	0.78 in / 20 mm digits						
Pan Size (W x D)	9.1 x 6.9 in / 230 x 174 mm						
Balance Dimensions (W x D x H)	9.5 x 9.8 x 2.9 in / 240 x 250 x 74 mm						
Shipping Dimensions (W x D x H)	15.2 x 13.2 x 6.7 in / 385 x 335 x 170 mm						
Net Weight	3.3 lb / 1.5 kg						
Shipping Weight	5.1 lb / 2.3 kg						

** Availability depends on model and region.

Capacity x Readability

Model	NV123	NV223	NV323	NV222	NV422	NV622	NV1202
Gram (g)	120 x 0.001	220 x 0.001	320 x 0.001	220 x 0.01	420 x 0.01	620 x 0.01	1200 x 0.01
Kilogram (kg)	/	/	/	/	/	/	1.2 x 0.00001
Newton (N)	1.17679 x 0.00001	2.15744 x 0.00001	3.1381 x 0.00001	2.1574 x 0.0001	4.1188 x 0.0001	6.0801 x 0.0001	11.7679 x 0.0001
Ounce (oz)	4.23285 x 0.00005	7.76025 x 0.00005	9.99995 x 0.00005 11.2876 x 0.0001	7.7600 x 0.0005	14.8150 x 0.0005	21.8700 x 0.0005	42.3285 x 0.0005
Ounce Troy (ozt)	3.85805 x 0.00005	7.07315 x 0.00005	10.28820 x 0.00005	7.0730 x 0.0005	13.5030 x 0.0005	19.9335 x 0.0005	38.5805 x 0.0005
Pennyweight (dwt)	77.162 x 0.001	141.463 x 0.001	205.765 x 0.001	141.46 x 0.01	270.07 x 0.01	398.67 x 0.01	771.62 x 0.01
Pound (lb)	/	/	/	/	/	1.36690 x 0.00005	2.64550 x 0.00005
Pound:Ounce (lb:oz)	/	/	/	/	/	1lb:5.8700oz x 0.0005 oz	2lb:10.328oz x 0.001oz
Carat (ct)	600.000 x 0.005	999.995/1100.0 x 0.005/0.01	999.995/1600 x 0.005/0.01	1100 x 0.05	2100 x 0.05	3100 x 0.05	6000 x 0.05
Grain (gm)	1851.78 x 0.02	3395.12 x 0.02	4938.26 x 0.02	3395.0 x 0.2	6481.6 x 0.2	9568.0 x 0.2	18518.8 x 0.2

Model	NV2202	NV3202	NV221	NV621	NV1201	NV2201	NVT2201
Gram (g)	2200 x 0.01	3200 x 0.01	220 x 0.1	620 x 0.1	1200 x 0.1	2200 x 0.1	2200 x 0.1
Kilogram (kg)	2.2 x 0.00001	3.2 x 0.00001	/	/	1.2 x 0.0001	2.2 x 0.0001	2.2 x 0.0001
Newton (N)	21.5744 x 0.0001	31.381 x 0.0001	2.157 x 0.001	6.080 x 0.001	11.768 x 0.001	21.574 x 0.001	21.574 x 0.001
Ounce (oz)	77.6025 x 0.0005	99.9995/112.876 x 0.005/0.001	7.760 x 0.005	21.870 x 0.005	42.330 x 0.005	77.600 x 0.005	77.600 x 0.005
Ounce Troy (ozt)	70.7315 x 0.0005	99.9995/102.882 x 0.005/0.001	7.070 x 0.005	19.930 x 0.005	38.580 x 0.005	70.730 x 0.005	70.730 x 0.005
Pennyweight (dwt)	1414.63 x 0.01	2057.65 x 0.01	141.5 x 0.1	398.7 x 0.1	771.6 x 0.1	1414.6 x 0.1	1414.6 x 0.1
Pound (lb)	4.85015 x 0.00005	7.05475 x 0.00005	/	1.3670 x 0.0005	2.6455 x 0.0005	4.8500 x 0.0005	4.8500 x 0.0005
Pound:Ounce (lb:oz)	4lb:13.604oz x 0.001oz	7lb:00.878oz x 0.001oz	/	1lb:5.870oz x 0.005oz	2lb:10.330oz x 0.005oz	4lb:13.600oz x 0.005oz	4lb:13.600oz x 0.005oz
Carat (ct)	9999.95/11000.0 x 0.05/0.1	9999.95/16000.0 x 0.05/0.1	1100 x 0.5	3100 x 0.5	6000 x 0.5	11000 x 0.5	11000 x 0.5
Grain (gm)	33951.2 x 0.2	49383.6 x 0.2	3400 x 2	9570 x 2	18520 x 2	33950 x 2	33950 x 2

Model	NVT4201	NVT6201	NVT10201	NVT2200	NVT6200	NVT12000	NVT22000
Gram (g)	4200 x 0.1	6200 x 0.1	10000 x 0.1	2200 x 1	6200 x 1	12000 x 1	22000 x 1
Kilogram (kg)	4.2 x 0.0001	6.2 x 0.0001	10 x 0.0001	2.2 x 0.001	6.2 x 0.001	12 x 0.001	22 x 0.001
Newton (N)	41.188 x 0.001	60.801 x 0.001	98.066 x 0.001	21.57 x 0.01	60.8 x 0.01	117.68 x 0.01	215.74 x 0.01
Ounce (oz)	148.15 x 0.005	218.700 x 0.005	352.735 x 0.005	77.6 x 0.05	218.7 x 0.05	423.3 x 0.05	776.05 x 0.05
Ounce Troy (ozt)	135.035 x 0.005	199.335 x 0.005	321.505 x 0.005	70.75 x 0.05	199.35 x 0.05	385.8 x 0.05	707.3 x 0.05
Pennyweight (dwt)	2700.7 x 0.1	3986.7 x 0.1	6430.1 x 0.1	1410 x 1	3990 x 1	7720 x 1	14150 x 1
Pound (lb)	9.2595 x 0.0005	13.6685 x 0.0005	22.0460 x 0.0005	4.85 x 0.005	13.67 x 0.005	26.455 x 0.005	48.5 x 0.005
Pound:Ounce (lb:oz)	9lb:4.15oz x 0.005oz	13lb:10.700oz x 0.005oz	9lb:15.995oz / 22lb:00.74oz x 0.005oz / 0.01oz	4lb:13.6oz x 0.05oz	13lb:10.7oz x 0.05oz	26lb:7.3oz x 0.05oz	48lb:8.05oz x 0.05oz
Carat (ct)	21000 x 0.5	31000 x 0.5	50000.0 x 0.5	11000 x 5	31000 x 5	60000 x 5	110000 x 5
Grain (grn)	64820 x 2	95680 x 2	154320 x 2	33960.19 x 20	95680 x 20	185180 x 20	339520 x 20

Approved Models

Model	NVT1601M	NVT3200M	NVT6400M	NVT16000M
Capacity (g)	1600	3200	6400	16000
Readability (g)	0.5	1	2	5
Verification Interval e (g)	0.5	1	2	5
Span Calibration Mass (Not Included)	1 kg	2 kg	5 kg	10 kg
Linearity Calibration Mass	1 kg, 1.5 kg	2 kg, 3 kg	3 kg, 6 kg	10 kg, 15 kg
Approval Class	III			
Stabilization Time (s)	1 s			
Construction	ABS housing & stainless steel pan			
Calibration	User-selectable external span or linearity calibration/Digital with external weight			
Tare Range	Full capacity by subtraction			
Weighing Units	g, kg, ct			
Application Modes	Weighing, Percent Weighing, Parts Counting, Check Weighing			
Keypad	4 mechanical keys, plus 1 touchless sensor			
Power Requirement	AC adapter (included) or 4 C batteries (not included)			
Typical Battery Life	270 hours			
Specified Temperature Range	0°C (32°F) to 40°C (104°F) at 10% to 85% relative humidity, non-condensing			
Storage Conditions	-20°C (-4°F) to 55°C (131°F) at 10% to 90% relative humidity, non-condensing			
Communication	RS232, USB, or Ethernet (available as accessories)			
Display Type	Liquid Crystal Display (LCD) with backlight			
Display Size	20 mm digits			
Pan Size (W x D)	230 x 174 mm			
Balance Dimensions (W x D x H)	240 x 250 x 74 mm			
Shipping Dimensions (W x D x H)	385 x 335 x 170 mm			
Net Weight	1.5 kg			
Shipping Weight	2.3 kg			