

# Navigator<sup>®</sup> Series

Portable Scales



## The Only Scale in its Class with Touchless Sensors That Free Up Your Hands!

OHAUS raises the bar in value-oriented scales...again! The Navigator® series offers a unique combination of features, including touchless sensors, ultra-fast response time and superior overload protection for use in a wide variety of weighing applications. NTEP and Measurement Canada approved models meet or exceed Class III accuracy requirements

#### Standard Features Include:

- Now Available In Three Durable Housing Sizes With Models To Fit Any Application
- **Touchless Sensors**—The Navigator Series is designed with two touchless sensors that will free up your hands so you can focus on handling samples. The touch-free control of the zero, print, function or tare operations helps to avoid transferring sample residue to the keypad. In addition, the two sensors can be set up independently to control up to 36 combinations of operations
- One Second Stabilization Time—The Navigator Series is designed to accurately stabilize in less than one second to provide fast and accurate weighing results, improving operator efficiency, productivity and throughput.
- Superior Overload Protection—The Navigator Series is designed with a superior mechanical overload protection system that allows the scale to withstand loads up to 400% of its rated capacity. This prevents damage to the scale and helps it withstand undue shock or overloading. In addition, an integrated shipping lock further protects the weighing cell from damage during transportation or storage.
- **Multiple Application Modes**—The Navigator Series is designed for versatility. Multiple application modes such as counting, percent weighing, checkweighing, display hold and accumulation/ totalization address a wide range of use in quality control, inventory management, shipping and receiving, recipes and formulation, portioning and other popular applications.

## Navigator<sup>®</sup> Series Portable Scales

With Its Best-In-Class Combination of Features, Versatility and Performance, The OHAUS Navigator Offers a Wide Range of Use in Industrial, Food and Laboratory Weighing Applications.

## **Unsurpassed Cleanliness**

- Designed with two touchless sensors that free up your hands, allowing you to focus on handling samples and keeping the scale free from contaminants. The touch-free control of tare, zero, print, function and display backlight helps to minimize touching the keypad, thereby avoiding cross-contamination or unwanted residue on or from the scale.
- A polished stainless steel platform, corrosion-free plastic housing and spill-resistant sub-assembly embodies a hygienic design that is easy to clean.
- The optional full-body in-use cover wraps over and around the housing and keypad to guard against spills, dust and contamination.

## **Unmatched Productivity**

- Amazing stabilization in less than one second to provide fast, accurate and repeatable weighing results; improving operator efficiency and increasing productivity.
- Includes an internal rechargeable lead acid battery that operates up to 100 hours (or over twelve 8-hour days) of normal use on a full charge. With maximized portability, the scale can be transported and used where power outlets are not readily available.
- A wave of the hand over the touchless sensors eliminates the extra effort or time to press the keys.
- A bright backlit LCD display provides optimum visibility in any lighting condition indoors or out with large digits and indicators that make it fast and easy to read the weighing results.

## **Unmatched Durability**

- Built to handle serious loads, the superior mechanical overload protection system enables the scale to safely bear loads up to 4 times its rated capacity.
- Constructed of a high-strength 304 type stainless steel platform and impact-resistant ABS plastic housing that helps the scale stand up to years of use.
- The touchless sensors minimize keypad use, reducing operational wear and tear.



## **Applications**

(Applications available with any model)

## **Laboratory and Research**

Designed to be easy to clean, precise and simple to use in laboratory environments. Simple set up, a spill-resistant housing, percent weighing mode and security features make this the ideal solution for laboratory applications such as formulation, quality inspections, testing and experimentation.





## **Industry and Manufacturing**

Designed to be robust, fast and accurate for ideal use in light-medium duty industrial applications, including paint and ink mixing, packaging, sampling and parts counting. Up to 400% safe overload enhances protection of internal components, with an ultra-fast, one-second stabilization time to improve operator efficiency and productivity.

## Home Office, Commercial Business and Manufacturing

Designed to be tough, portable and reliable for ideal use in shipping and receiving, home office and warehouse environments. A display hold mode holds the weight for viewing that would otherwise be blocked by oversized packages. Battery operation, counting and checkweighing modes also expand range of use for hobbies, inventory management, inspection and quality control.





## **Food and Portioning**

Designed to be hygienic, low-maintenance and durable for ideal use in food service, portioning and pre-packaging. Weighing units such as lb, oz, lb:oz (including 1/8 fractional ounce), kg and g, and percent and checkweighing modes enhance its usefulness in behind-the-counter, prep station and kitchen environments.

gator Series	Š
	gator Series

Stabilization Time	≤1 second					
Tare Range	Full capacity by subtraction					
AC Power	12VDC 0.42A AC adapter (included), 100-240V 0.25A 50-60Hz					
Calibration	User-selectable external span or linearity calibration / Digital with external weight					
Application Modes	Weighing, Percent Weighing, Parts Counting, Check Weighing, Display Hold, Accumulate/Totalize					
Weighing Units*	Gram, Kilogram, Pound, Ounce (decimal or fractional), Pound:Ounce (decimal or fractional), Ounce Troy, Grain, Newton, Carat, Pennyweight, Hong Kong Tael, Taiwan Tael, Singapore Tael, Tical, Tola					
Display Type	Backlit LCD: 6-digit 7-segment with white LED backlight					
Display Size	0.78 in / 20 mm digits					
Checkweigh Indicators	Over-Accept-Under LCD annunciators					
Keypad	4 mechanical keys, raised and with tactile feedback plus 2 touchless sensors					
Leveling Adjustment	Front-mounted level bubble with illumination / adjustable leveling feet with skid-resistant rubber pads					
Overload Capacity	400% of rated capacity					
Power Conservation	User-enabled auto power-off after 5 minutes of inactivity					
Operating Conditions	50°F to 104°F / 10°C to 40°C at 20% to 85% relative humidity, non-condensing					

<sup>\*</sup>NV212 no kg or lb units; NV511 / NVL511 no kg units

## Standard Models – Navigator

Model	NV212	NV211	NV511	NV1101	NV2101	NV4101	NV5101	NV4000
Capacity x Maximum Displayed Readability	210 g x 0.01 g	210 g x 0.1 g	510 g x 0.1 g	1,100 g x 0.1 g	2,100 g x 0.1 g	4,100 g x 0.2 g	5,100 g x 0.5 g	4000g×1g
	_	_	1.1 lb x 0.0005 lb	2.4 lb x 0.0005 lb	4.6 lb x 0.0005 lb	9 lb x 0.0005 lb	11.2 lb x 0.002 lb	9lb×0.005lb
	7.4 oz x 0.0005 or	7.4 oz x 0.0005 or	38.8 oz x 0.005 or	7.4oz×0.005 or	74oz×0.005 or	144.6oz×0.01 or	179.9oz×0.02 or	144.6oz×0.05 or
, ,	1/8 oz	1/8 oz	1/8 oz	1/8oz	1/8oz	1/8oz	1/8oz	1/8oz
			_	1.1 kg x 0.0001 kg	2.1 kg x 0.0001 kg	4.1 kg x 0.0002 kg	5.1 kg x 0.0005 kg	4kg×0.001kg
Displayed Resolution (g)	1:21000	1:2100	1:5100	1:11000	1:21000	1:20500	1:10200	1:4000
Repeatability / Linearity	0.01 g / ±0.02 g	0.1g/±0.2g	0.1 g / ±0.2 g	0.1 g / ±0.2 g	0.1 g / ±0.2 g	0.2 g / ±0.4 g	0.5 g / ±1 g	1g/±2g
Span Calibration Mass1	200 g	200g	300 g	500 g	1 kg	2 kg	3 kg	4000g
Linearity Calibration Mass1	100, 200 g	100,200g	300, 500 g	500 g, 1 kg	1, 2kg	2, 4kg	3, 5kg	2,4kg
Battery Power	4 AA (LR6) batteries (not supplied)							
Pan Size (W x D)	4.7 in / 120 mm (dia.) 7.5 x 5.4 in / 190 x 138 mm							
Scale Dimensions (W x D x H)	8 x 8.4 x 2.3 in / 204 x 212 x 58 mm							
Shipping Dimensions $(W \times D \times H)$	12 x 10 x 5.3 in / 305 x 255 x 134 mm							
Net Weight	3.1 lb / 1.4 kg							
Shipping Weight	4.2 lb / 1.9 kg							

¹Calibration weights not included; contact OHAUS to purchase separately

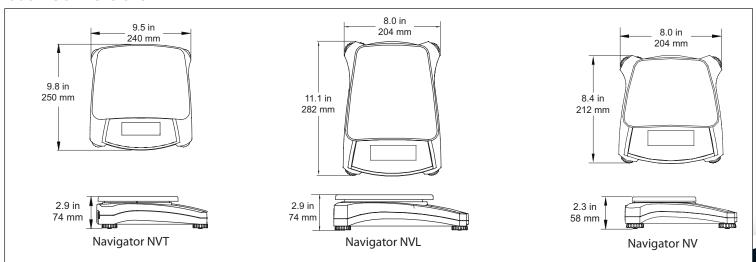
#### Standard Models - Navigator XL

Model	NVL511/1	NVL1101/1	NVL2101/1	NVL5101/1	NVL10000/1	NVL20000/1	
Capacity x Maximum Displayed Readability	510 g x 0.1 g	1,100 g x 0.1 g	2,100 g x 0.1 g	5,100 g x 0.5 g	10,000 g x 1 g	20,000 g x 1 g	
	1.1 lb x 0.0005 lb	2.4 lb x 0.0005 lb	4.6 lb x 0.0005 lb	.6 lb x 0.0005 lb 11.2 lb x 0.002 lb		44 lb x 0.005 lb	
	18 x 0.005 or 1/8 oz	38.8 x 0.005 or 1/8 oz	74 x 0.005 or 1/8 oz	179.9 x 0.02 or 1/8 oz	352 x 0.05 or 1/8 oz	705.5 x 0.05 or 1/8 oz	
	_	1.1 kg x 0.0001 kg	2.1 kg x 0.0001 kg	5.1 kg x 0.0005 kg	10 kg x 0.001 kg	20 kg x 0.001 kg	
Displayed Resolution (g)	1:5100	1:11000	1:21000	1:10200	1:10000	1:20000	
Repeatability / Linearity	0.1 g / ±0.2 g	0.1 g / ±0.2 g	0.1 g / ±0.2 g	0.5 g / ±1 g	1 g / ±2 g	1 g / ±2 g	
Span Calibration Mass1	300 g	1 lb / 500 g	2 lb / 1 kg	5 lb / 3 kg	10 lb / 5 kg	20 lb / 10 kg	
Linearity Calibration Mass1	300 g, 500 g	1 lb, 2 lb 500 g, 1000 g	2 lb, 5 lb 1 kg, 2 kg	5 lb, 10 lb 3 kg, 5 kg	10 lb, 20 lb 5 kg, 10 kg	20 lb, 50 lb 10 kg, 20 kg	
Battery Power	Internal rechargeable lead acid battery, 6V1.2AH (100-hour typical operation with 12-hour full charge), or 4C (LR14) batteries (not included)						
Pan Size (W x D)	7.6 x 8 in / 194 x 203 mm						
Scale Dimensions (W x D x H)	8 x 11.1 x 2.9 in / 204 x 282 x 74 mm						
Shipping Dimensions (W x D x H)	16 x 12.8 x 6.7 in / 390 x 325 x 170 mm						
Net Weight	4.3 lb / 2.0 kg						
Shipping Weight	6.1 lb / 2.8 kg						

<sup>1</sup>Calibration weights not included; contact OHAUS to purchase separately

#### Features (Navigator NVT shown) **Optional RS232, USB or Ethernet Interface Kits Security Bracket** These easily installed user options allow connecting The integral security bracket the scale to peripheral devices for printing and/or data **Internal Rechargeable Battery** collection. The connecting cable is integrated in each accommodates the optional locking Enhance mobility by being able to work anywhere! The cable to secure kit, eliminating the need for additional interface cables. sealed lead acid battery the scale to a operates up to 100 hours workstation. on a full charge to minimize battery replacement and reduce maintenance costs. **Transportation Lock Backlit Display** The transportation lock The bright backlit prevents undue pressure LCD provides optima on the load cell to ensure visibility in any the scale is received in lighting condition. Used indoors operational condition. or outdoors, the large digits and Unlock before use and indicators also make the weighing lock when moving around results fast and easy to read. different locations. **Skid-Resistant Leveling Feet** ndependently **Illuminated Up-front Level** adjustable, the Indicator feet also have skid-The integral level resistant rubber bubble is illuminated pads to provide at power up to aid in superior stability, and visibility, and serves as **Touchless Sensors** vibration resistance. a reminder to level the Two touchless sensors can be set up scale prior to use. independently to operate up to 36 combinations of operations without Menu Lock Switch touching the keys. Prolongs the life A menu lock switch acts as an extra supervisor of the keys and keeps the scale clean. control to prevent Sensors control: Tare, Zero, Print, unwanted changes to Function and Display Backlight. protected scale settings. Simply set up the scale

### **Outline Dimensions**



to meet your specific needs then slide the lock switch to avoid changes and calibration.

# Navigator® Series Portable Scales

Standard Models – Navigator XT

Model	NVT1601/1	NVT10001/1	NVT16000/1				
	1,600 g x 0.1 g	3,200 g x 0.2 g	6,400 g x 0.5 g	10,000 g x 0.5 g	16,000 g x 1 g		
Capacity x Maximum Displayed	3.2 lb x 0.0002 lb	6.4 lb x 0.0005 lb	16 lb x 0.001 lb	22 lb x 0.002 lb	32 lb x .002 lb		
Readability	51 oz x 0.005 or 1/8 oz	102 oz x 0.01 or 1/8 oz	256 oz x 0.02 or 1/8 oz	352 oz x 0.05 or 1/8 oz	515 oz x 0.05 or 1/8 oz		
	1.6 kg x 0.0001 kg	3.2 kg x 0.0002 kg	6.4 kg x 0.0005 kg	10 kg x 0.0005 kg	16 kg x 0.001 kg		
Displayed Resolution (g)	1:16000	1:16000	1:16000	1:20000	1:16000		
NTEP and Measurement Canada Approved Models	NVT1601N/1	NVT3200N/1	NVT6400N/1		NVT16000N/1		
Capacity ×	1,600 g × 0.5 g	3,200 g × 1 g	6,400 g × 2 g		16,000 g × 5 g		
Legal for Trade Readability (e)	3.2 lb × 0.001 lb	6.4 lb × 0.002 lb	16 lb × 0.005 lb		32 lb × 0.01 lb		
oroved - Appro.	51 oz × 0.02 oz	102 oz × 0.05 oz	256 oz × 0.1 oz		512 oz × 0.2 oz		
	46 ozt × 0.02 ozt	93 ozt × 0.05 ozt	233 ozt × 0.1 ozt		466 ozt × 0.2 ozt		
	8,000 ct × 5 ct	16,000 ct × 5 ct	32,000 ct × 10 ct		80,000 ct × 50 ct		
O'S AND MA	1.6 kg × 0.0005 kg	3.2 kg × 0.001 kg	6.4 kg × 0.002 kg		16 kg × 0.005 kg		
Legal for Trade Resolution (g)	rade Resolution (g) 1:3200 1:3200 1:3200			1:3200			
Repeatability / Linearity	0.1g / ±0.2g	0.2g / ±0.4g	0.5g / ±1g	0.5g / ±1g	1g / ±2g		
Span Calibration Mass1	2 lb / 1 kg	5 lb / 2 kg	10 lb / 5 kg	10 lb / 5 kg	20 lb / 10 kg		
Linearity Calibration Mass1	2 lb, 3 lb 1 kg, 1.5 kg	2 lb, 5 lb 2 kg, 3 kg	10 lb, 15 lb 3 kg, 6 kg	10 lb, 20 lb 5 kg, 10 kg	20 lb, 30 lb 10 kg, 15 kg		
Battery Power	Internal rechargeable lead acid battery, 6V1.2AH (100-hour typical operation with 12-hour full charge), or 4C (LR14) batteries (not included)						
Pan Size (W x D)	9 x 6.9 in / 230 x 174 mm						
Scale Dimensions (W x D x H)	9.5 x 9.8 x 2.9 in / 240 x 250 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						
Net Weight	4.3 lb / 2 kg						
Shipping Weight	6.1 lb / 2.8 kg						

## **Other Standard Features and Equipment**

Integral security bracket, stability indicator, software overload/underload indicators, low battery indicator, auto shut-off, AC adapter, user selectable backlight settings, user selectable printing options, user selectable communications settings.

#### **Accessories**

RS232 Interface Kit, Navigator Series	83032107
USB Interface Kit, Navigator Series	83032108
Ethernet Interface Kit, Navigator Series	83032109
In Use Cover, Navigator NV	83032223
In Use Cover, Navigator NVL	83032222
In-Use Cover, Navigator NVT	83032221
Carrying Case, Navigator NV	83032226
Carrying Case, Navigator NVL	83032225
Carrying Case, Navigator NVT	83032224
Printers, Cables and Calibration Weights	Contact OHAUS for full selection

## **Compliance**

- Electromagnetic Compatibility: C-Tick, CE Class B, FCC Class B, ICES-003 Class B
- Safety (AC adaptors only): C-Tick, CCC, CE, cCSAus, KTL, PSE, TUV-GS
   Compliant to Directive 2002/96/EC on waste electrical and electronic equipment (WEEE)
   Compliant to Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)
- Quality: OHAUS quality management system registered to ISO 9001:2008

#### **OHAUS CORPORATION**

\* 7 Campus Drive Suite 310 Parsippany, NJ 07054 USA

Tel: 800.672.7722 973.377.9000 Fax: 973.944.7177

#### www.ohaus.com

With offices throughout Europe, Asia, and Latin America

#### \*ISO 9001:2008

Registered Quality Management System



80774559\_I © Copyright Ohaus Corporation