OHAUS Asia-Pacific Dealer Meeting
March 23 - 25, 2010
Hua Hin, Thailand

Food Scales

Valor 1000
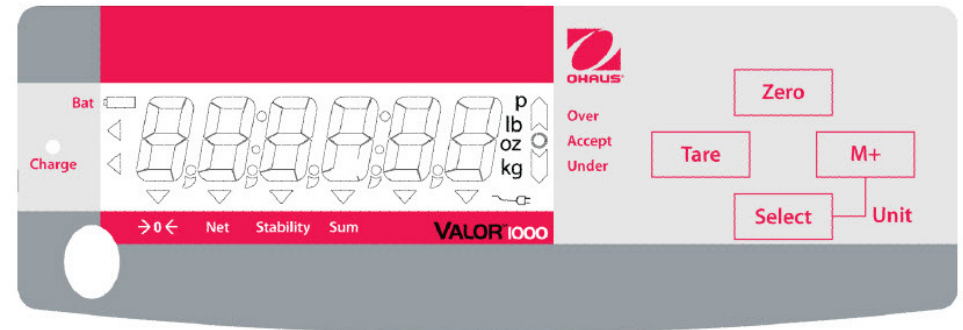
Compete in low cost dry food service/ portioning segment with simple, portable and low cost precision scale

Ingeniously Practical

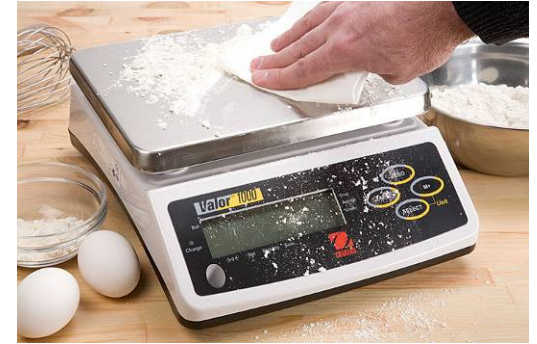# Valor 1000

Address New Markets….

- Low cost Precision general weighing
- Low cost compact food portioning

With New Product….

- Sleek profile, large backlit display, internal battery
- Removable stainless steel pan, smooth housing
- Bench or tabletop friendly footprint

Deliver Ohaus Value….

- Good performance, good quality, low cost
- Check and accumulate application modes
- Competitive pricing vs. others

Ingeniously Practical

Practical design

- Small footprint, mid height, large stainless pan
- Bright easy to read backlit LCD, with audible beep

Solid performance

- Resolutions up to 7,500d
- Level bubble and feet maximize accuracy
- Digital external span calibration

Friendly operation

- Easy to clean, Easy transport size
- Long life Standard Battery or AC power
- Simple Check weigh, and accumulate functions

Valor 1000

Standard Features

- ABS plastic housing with SS pan
- Weighing units: kg, g, lb, oz
- Check weigh and Accumulate modes
- Level bubble and adjustable feet
- Four raised tactile mechanical buttons
- Internal rechargeable ~80 hour lead acid battery
- 7-segment 6 digit backlit LCD
- Stability indication, Auto zero tracking
- Power saving auto shut off backlight
- Subtractive Tare up to capacity
- Low battery, over under accept indicators
- Standard AC power adapter

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OHAUS

Dual Display Model available!

NEW!

Bat						Over
						Accept
						Under
→0←	Net	Stability	Sum	VALOR 1000		

OHAUS

Ingeniously Practical

Valor 1000

V11P3	V11P6	V11P15	V11P30
V11P3T	V11P6T	V11P15T	V11P30T
3kg x 0.5g	6kg x 1g	15kg x 2g	30kg x 5g

NEW!

Applications

General weigh

Dry Portion

Check weigh

Production line

Ingredient mixing
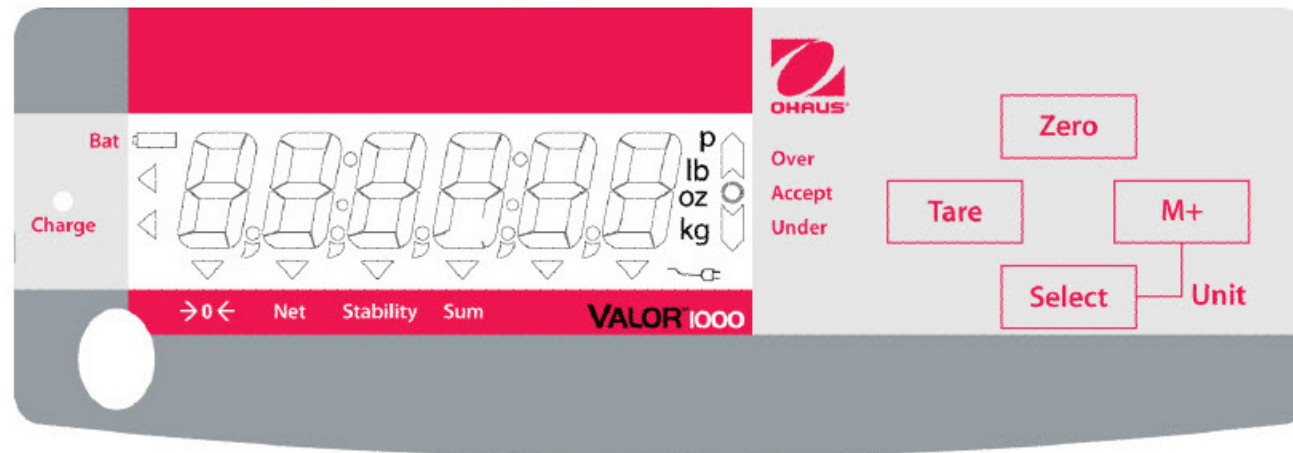
Ingeniously Practical

Valor 1000

ZERO (enter)
Zero's scale display not
subtractive of capacity
*(Accept when used in menu,
clears accumulated value
when in accumulate)*

TARE (down arrow)
Subtracts value on pan from
capacity
*(decrement size when used
in menu)*

SELECT & M+
Change weighing units
Kilograms (kg)
Gram (g)
Pound (lb)
Ounce (oz)

SELECT (left arrow)
Used in conjunction with M+
to change weighing unit,
used in conjunction with zero
to enter check weigh mode
(decrements in menu)

M+ (up arrow)
Add weight on pan for
accumulate mode, when pan
empty recall current stored
weight
(increments in menu)

*Ingeniously
Practical*

Customer Needs: OHAUS Innovation: Customer Value:

- Inexpensive, compact design

- Portable with good performance

- Easy to keep clean and store after day of use

- **USP** Efficient, full ABS plastic design

- **USP** Lightweight, battery powered, Up to 7,500d resolution

- **USP** Smooth shapes, no gaps, or ridges, removable pan, portable size

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- Best of both worlds, low cost, yet Ohaus quality

- Easy to transport, no power cord needed, precision accuracy

- Low maintenance Trouble free operation

Ingeniously
Practical

Valor 1000W

Compete in low cost wet food production/ portioning segment with simple, portable and low cost precision scale

Ingeniously Practical

Address New Markets…

- Food production, sanitary weighing
- Wet, harsh working conditions
- Low cost compact food portioning

With New Product….

- High profile, red LED display, internal battery
- Removable stainless steel pan, smooth housing
- "Water-in, water-out" design concept, IP65 PCB sealed

Deliver Ohaus Value

- Good performance, good quality, low cost
- Check and accumulate application modes
- Easy to clean and keep sanitary

Ingeniously Practical

Water Resistant IP65 design

- "Water-Proof" housing
- Sealed internal electronics
- Internal lead acid battery

Solid performance

- Resolutions up to 7,500d
- Level bubble and feet maximize accuracy
- 1.5 second or less stabilization time

Friendly operation

- Bright dual LED displays front and rear
- Easy to clean, Easy transport size
- Simple Check weigh, and accumulate functions

Ingeniously Practical

Standard Features

- Water-Proof IP65 Design
- ABS plastic housing with SS pan
- Weighing units: kg, lb
- Check weigh and Accumulate modes
- Level bubble and adjustable feet
- Internal rechargeable ~30 hour lead acid battery
- 6-digit, 7-segment LED front and rear
- Stability indication, Auto zero tracking
- Power saving auto shut off
- Subtractive Tare up to capacity
- Resolutions up to 7500d
- Fast response time
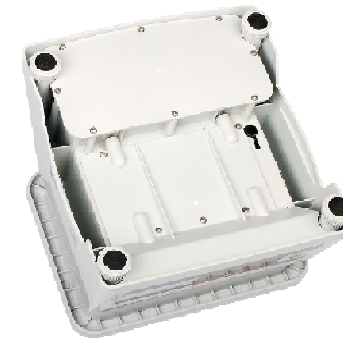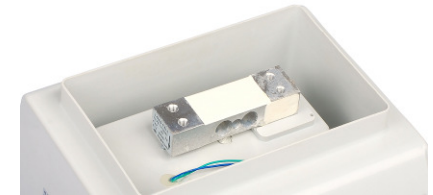
Ingeniously Practical

V11PW3	V11PW6	V11PW15	V11PW30
3kg x 0.5g	6kg x 1g	15kg x 2g	30kg x 5g

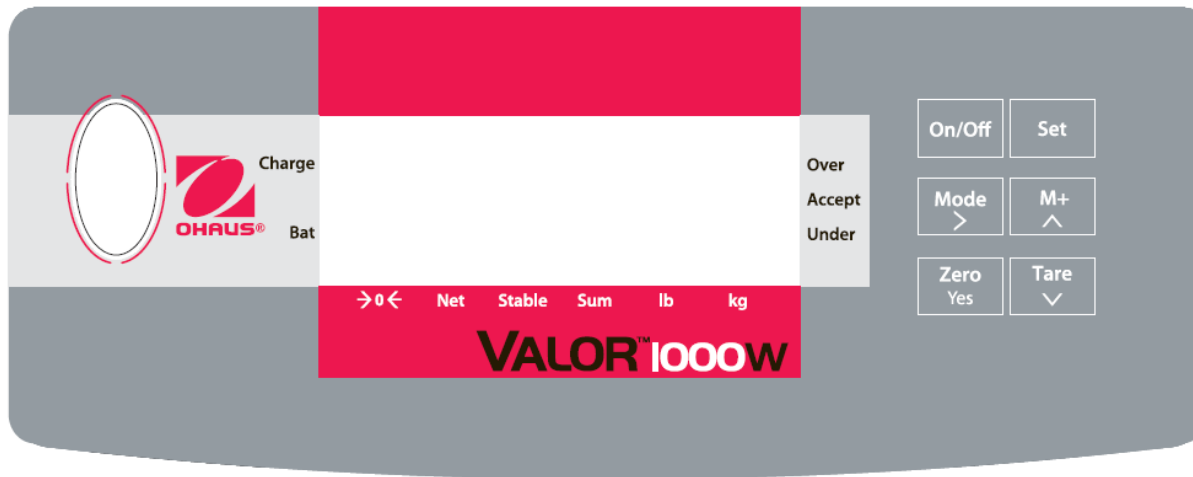| Applications |
|--------------|
| "All Wet Market" (markets selling seafood, meats and other wet goods) |
| Food Industry |
| Food institutions |
| Pre-packaged food sector |
| Check weigh |
| Ingredient mixing |

Ingeniously Practical

Valor 1000W – Keypad

OHAUS

Charge

Bat

→0← Net Stable Sum lb kg

On/Off   Set

Mode   M+
>   ^

Zero   Tare
Yes   v

Over
Accept
Under

VALOR™ 1000W

On/Off
Short Press: Turns scale on
Long Press: Turns scale off

Mode (right arrow)
Menu function: Shift to next digit when setting parameters, or step through menu settings

Zero (Yes)
Primary function: Sets display to zero
Menu function: Confirm settings

M+ (up arrow)
Primary function: Stores displayed weight in accumulation memory
Display accumulation data when display is at zero
Menu function: Increment displayed value, or toggle through menu settings

Tare (down arrow)
Primary function: Tares weight of item on pan
Menu function: Decrement displayed value, or toggle through menu settings

Set
Long Press: Enters menu mode
Menu function: Save settings and exit the menu

Ingeniously Practical

Valor 1000W – Specifications

Specification

Models:	V11PW3	V11PW6	V11PW15	V11PW30
Capacity x Readability	3 x 0.0005 kg	6 x 0.001 kg	15 x 0.002 kg	30 x 0.005 kg
Repeatability (std. dev. ±)	1g	2g	5g	10g
Linearity (±)	1g	2g	5g	10g
Weight units	kg, lb			
Modes	Weigh, Accumulation, Checkweighing			
Tare Range	2/3 or full scale			
Stabilization Time	≤ 2 seconds			
Power Requirements	9VDC 500mA or 12VDC 420mA AC adapter Internal rechargeable sealed lead acid battery			
Battery Life	30-hour typical operation with 12-hour full charge			
Display Type	Front and Rear, 6-digit 7-segment, 14.2mm/0.56"H LED digits			
Pan Size	257W x 192D mm / 10"W x 7.5"D			
Dimensions	248W x 270D x 174 minH mm / 9.8"W x 10.6"D x 6.9"H			
Operating Temperature Range	-10° to 40°C / 14° to 104°F ≤90% relative humidity, non-condensing			
Net Weight	3 kg			
Shipping Weight	4.3 kg	4.2 kg		
Shipping Dimensions	355W x 370D x 300H mm	305W x 320D x 250H mm		
Ingress Protection	IP65			

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Customer Needs: OHAUS Innovation: Customer Value:

|		
▪ Compact, water resistant design	**USP** Water resistant protection, IP65 PCB sealed	▪ Able to work reliably in wet environments
▪ Portable with good performance	**USP** Lightweight, battery powered, Up to 7,500d resolution	▪ Easy to transport, no power cord needed, precision accuracy
▪ Easy to keep clean and store after day of use	**USP** Smooth shapes, no gaps, or ridges, removable pan, portable size	▪ Low maintenance Trouble free operation
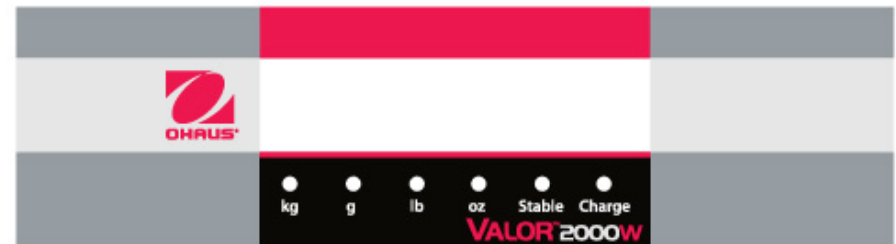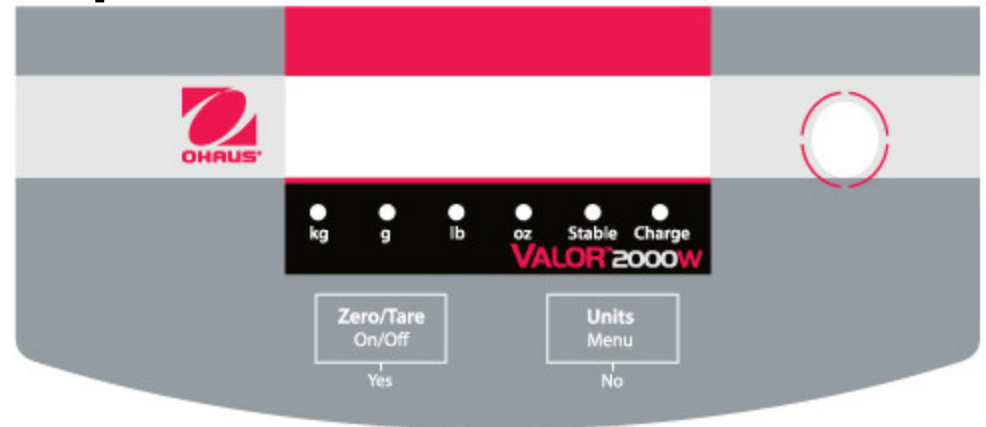
Ingeniously
Practical

Valor 2000

Address New Markets…

- Wet and harsh working conditions
- Food production, sanitary weighing
- Fast weighing, portable, big pan

With New Product….

- Double sealing (housing and PCB)
- NSF accepted, USDA approved
- Superior electronics, 7,500d, Battery powered

Deliver Ohaus Value

- Better withstand difficult environments
- Easy to clean and keep sanitary
- High throughput software, accurate results

Ingeniously Practical

Water Resistant design

- IP65 / NEMA 4X rated housing
- Sealed internal electronics
- Internal sealed lead acid battery

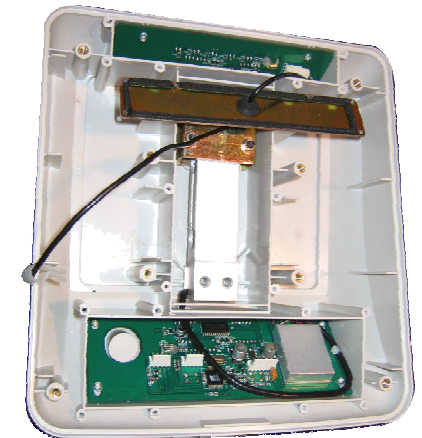## Great performance

- About 1 second or less stabilization time
- Adjustable stability, resolution and AZT settings
- External digital calibration

User Friendly Scale

- Bright dual LED displays front and rear
- Battery or AC power with auto shut off
- OHAUS Smartext operation

Ingeniously Practical

Valor 2000

Standard Features

- IP65 protection against dust and water
- NSF certified – complies with HACCP
- ABS plastic housing with SS pan
- Weighing units: kg, g, lb, oz
- Level bubble and adjustable feet
- Four raised tactile mechanical buttons
- Standard AC power adapter
- Internal rechargeable lead acid battery
- 6-digit, 7-segment LED front and rear
- Stability indication, Auto zero tracking
- Power saving auto shut off
- Resolutions up to 7500d
- Fast response time

Ingeniously Practical

ON/ Zero/Tare/off (Yes)

<u>Short press</u> - Zero's scale display if within +/- 2% of capacity, or tares scale subtractive of capacity

<u>Long Press</u> – Turns scale on if off, and off if on.
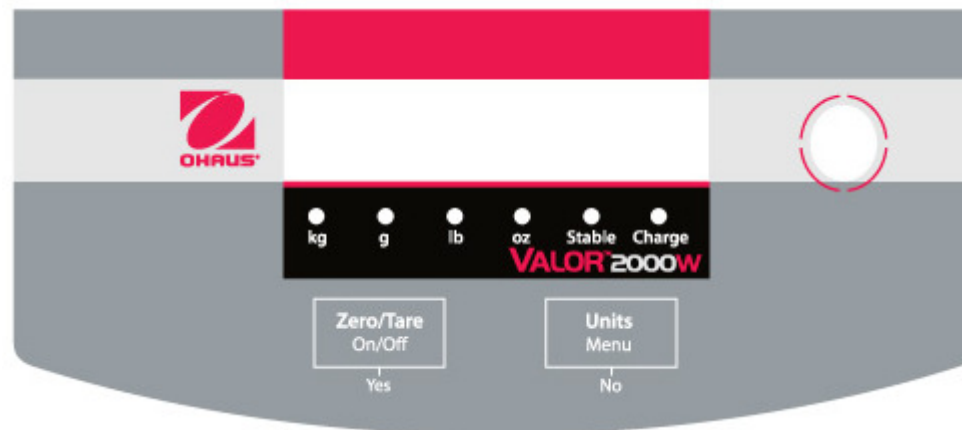
<u>Menu press</u> – "Yes" key accepts value

UNITS/ Menu (No)

<u>Short press</u> – Scrolls through enabled units of measure
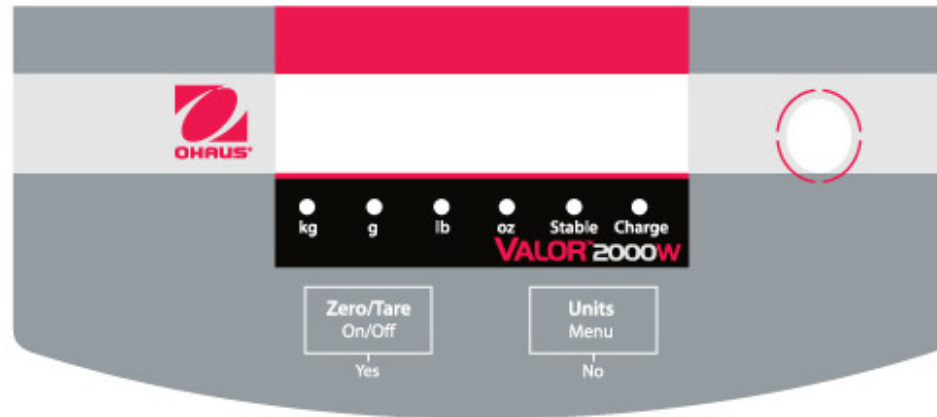
<u>Long Press</u> – Enters scale menu

<u>Menu press</u> – "No" key rejects value and scrolls to next selection

Valor 2000

CAL	AES	UNIT	A OFF	FILTER	A2T	LFT	END
SPAN	LO	Fg	OFF	LO	0.5d	OFF	
LIN	HI	g	ON	MEd	1d	ON	
				HI	3d		
					OFF		

Ingeniously Practical

Valor 2000

Customer Needs:	OHAUS Innovation:	Customer Value:
▪ Compact, water resistant design	✦USP✦ Unique "double seal" water resistant protection	▪ Able to work reliably in tough wet environments
▪ Fast weighing and Portable use	✦USP✦ Advanced weighing electronics, battery powered	▪ High throughput, Easy to transport, no wires needed
▪ Easy to use and keep sanitary	✦USP✦ NSF certified - Smooth shapes, no gaps, or ridges, removable pan	▪ Ideal for sanitary use and HACCP environments, worry free weighing

Ingeniously Practical

Valor 3000

Leverage OHAUS Scout Pro performance into a rugged, stainless steel, water proof, legal for trade, Food & all purpose scale

Mode/Unit
Menu
No

0/T
On/Off

Enter
Cal
Yes

VALOR™3000XTREMEW

Ingeniously Practical

Address New Markets…

- Extreme weighing (wet or dry)
- Food Segment - prep/portioning/service
- Must be sanitary

With New Product….

- Full stainless steel housing outside (NSF)
- High resolution, high performance inside (approvable)
- Food specific applications

Deliver Ohaus Value!

- Unbeatable overload & shock protection
- Fully washable waterproof models, and splash proof models
- Extremely competitive pricing vs. others

Ingeniously Practical

Most Rugged design

- Easy clean, full stainless steel housing (top and bottom)
- "Stand on me" Scout Pro shock and overload protection
- Four over sized feet with level bubble

Highest Performance

- Resolutions up to 40,000d
- Adjustable stability and AZT settings
- OIML and NTEP approvals

User Friendly Scale

- Standard weighing out of box
- % weigh, SG mode
- Backlit LCD with battery or AC power

Ingeniously Practical

Standard Features

- Compact stainless steel housing
- Capacity from 200g to 6kg
- IP65 rated models
- Backlit LCD with Auto shutoff mode
- Level bubble and four adjustable feet
- Adjustable environmental settings
- Multiple applications including
- % Weigh, Specific Gravity
- Stabilization time about 2 second
- Standard AC power or 4C battery operation
- External Span calibration
- Fully approved models

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Three types

- Standard
- High Resolution
- Approved

High Resolution	Standard	IP65 (Approved)
200g x 0.01g	3000g x 1g	300g x 0.1g (0.2g)
2000g x 0.1g	6000g x 1g	3000g x 0.5g (1g)
NEW! 400g x 0.01g	**NEW!** 500g x 0.1g	6000g x 1g (2g)
NEW! 4000g x 0.1g		

Ingeniously Practical

Valor 3000

Units of measure
Gram (g)
Kilograms (kg)
Pound (lb)
Ounce (oz)

Mode/Unit
Menu
No

Enter
Cal
Yes

0/T
On/Off

VALOR™3000XTREMEW

0/T – Sets display to zero.
On/Off – Turns scale on or off

Mode/Unit – Short press scrolls through active units and modes
No – Rejects value in menu

Enter – Accepts displayed value
Yes- Accepts value in Menu

Ingeniously Practical

Valor 3000

| Customer Needs:	OHAUS Innovation:	Customer Value:
▪ Must be easy to clean	**USP** Smooth NSF and USDA compliant housing	▪ Compliant and safe weighing
▪ Must be able to handle harsh environment	**USP** Full SS housing and IP65 models	▪ Durable and long lasting
▪ High weighing accuracy / Fast stabilization	**USP** High resolution 40,000d	▪ Precision and rugged design
▪ Must have way to control recipe amounts	**USP** Percent weigh, fluid oz mode, and Specific gravity mode	▪ Able to portion exactly, fast and without compromise

Ingeniously Practical

Valor 5000

Ingeniously
Practical

Compete against lower cost compact plastic body food portioning scales from many regional manufactures
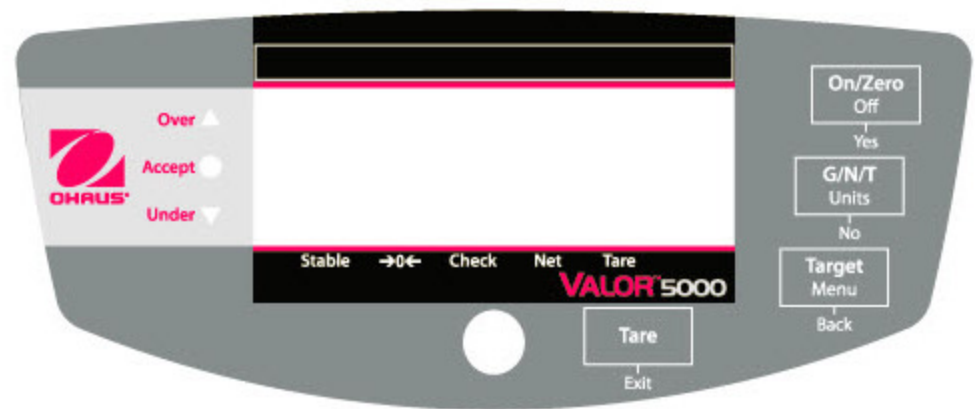
Ingeniously Practical

Valor 5000

Address broader Markets…

- Low cost Food Segment - prep/portioning/service
- Must be "sanitization" friendly, portable
- High precision weigh in compact footprint

With Enhanced Product….

- FD in Plastic housing (NSF)
- High resolution, high performance inside (approvable)
- Low profile and mid size footprint, IR battery

Deliver OHAUS Value!

- Unbeatable overload & shock protection
- Extremely competitive pricing vs. others
- Battery portability, up to 30,000d precision

Ingeniously Practical

Sanitary design

- Easy clean, full plastic housing (top and bottom)
- External tare for hands free weighing
- USDA and NSF certified

Highest Performance

- Resolutions to 30,000d
- Adjustable stability and AZT settings
- OIML and NTEP approvals

User Friendly Scale

- Mid size footprint for large pan, with low profile
- Multi units and % weigh, Checkweigh with LED's
- Backlit LCD with IR battery or AC power

Ingeniously Practical

Valor 5000

Standard Features

- Plastic housing with SS pan construction
- Weighing units: kg, g, lb, oz
- Weighing modes: static weighing, checkweighing
- Three LEDs & beeper for indication in checkweighing
- Display – blue backlit 5 digit LCD.
- Auto-tare.
- Fast ~1.5 sec stabilization.
- Remote tare foot switch connection.
- Integrated level bubble and adjustable feet.
- Food safety approvals: USDA, NSF (HACCP)
- Standard AC power adapter and internal lead acid rechargeable battery pack.
- 5 level Low Battery Detect

Ingeniously Practical

Standard	High Resolution
3,000g x 0.5g	3,000g x 0.1g
6,000g x 1g	6,000g x 0.2g
15,000g x 2g	15,000g x 1g
30,000g x 5g	30,000g x 1g

Ingeniously Practical

Valor 5000 - keypad

ON/ZERO *Off* – Yes
- Turn on/off scale
- *Zero the display*
- Menu – Accept menu/setting
- Target - shift to next over-under digit

G/N/T *Units* – No
- Display Gross-Tare-Net
- Select active weighing units
- Menu – Go to next menu/setting
- Target – increments value of active digit

TARGET *Menu* – Back
- Initiate/Accept Under-Over setup
- *Enter Menu mode*
- Menu – Go back to previous menu/sub-menu

TARE – Exit
- Tare the weight on pan
- Abort calibration process
- Menu – Exit Menu mode
- Target - change +/- sign of active value

Ingeniously Practical

Valor 5000

Customer Needs:	OHAUS Innovation:	Customer Value:
▪ Must be easy to clean	USP Smooth NSF and USDA compliant housing	▪ Compliant and safe weighing
▪ High weighing accuracy / Fast stabilization	USP High resolution 30,000d with fast stabilization	▪ Precision and rugged design
▪ Must have way to control recipe amounts	USP Percent weigh, fluid oz mode, and Specific gravity mode	▪ Able to portion exactly, fast and without compromise

Ingeniously Practical

FD

All Stainless Steel Construction!

General Specifications	FD3	FD6	FD15	FD3H	FD6H	FD15H
Capacity x Readability (d) (non-approved)	3kg x 0.0005kg 3000g x 0.5g	6kg x 0.001kg 6000g x 1g	15kg x 0.002kg 15000g x 2g	3kg x 0.0001kg 3000g x 0.1g	6kg x 0.0002kg 6000g x 0.2g	15kg x 0.001kg 15000g x 1g
Max Displayed Resolution	1:6,000	1:6,000	1:7,500	1:30,000	1:30,000	1:15,000
Approved Resolution	1:3,000			1:3,000		
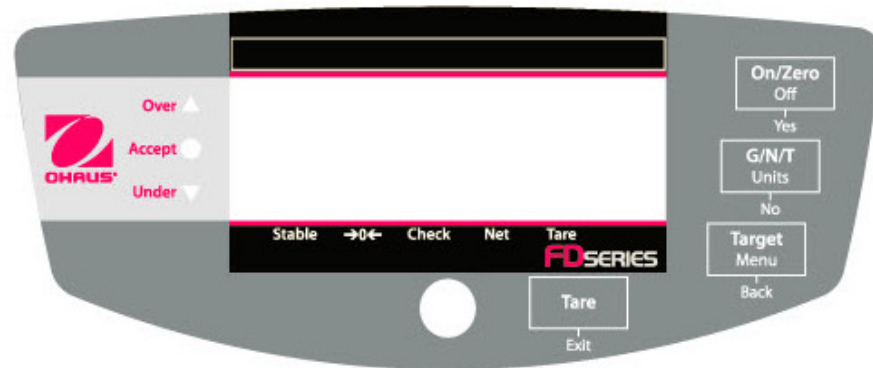
Ingeniously Practical

Metrology (LFT/Type) Approvals

- OIML: R76/1992-NL1-04.12 (July 5, 2004)
- EC EN45501-2001: T6527 r0 (July 5, 2004)
- NTEP
- Canada W&M

Food Safety Compliance

- "NSF Certified" (Official Listing July 14, 2004)
  - *NSF C-2 -- Special Equipment and/or Devices (Food Service Equipment)*
  - *This standard covers sanitation requirements for equipment and/or devices used in storing, preparing, or handling foods and beverages*
- "USDA-AMS Accepted"
  - *NSF/ANSI/3-A 14159-1-2002 (Hygiene Requirements for the Design of Meat and Poultry Equipment)*
  - *This standard applies to equipment intended for use in the slaughter, processing, and packaging of meat and poultry products*

"This product is NSF Certified and will support a HACCP certified system"
"Meets requirements for HACCP conformity"
"Supports HACCP compliance"

Ingeniously Practical

Valor series - Positioning

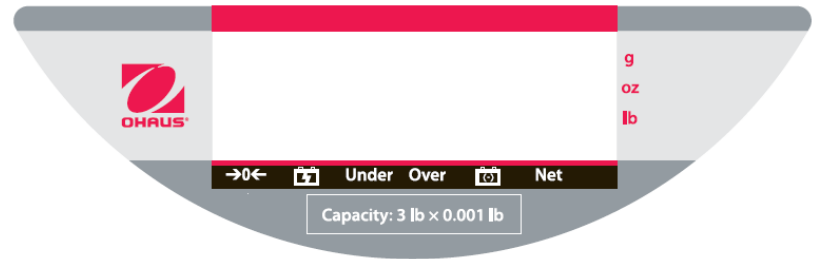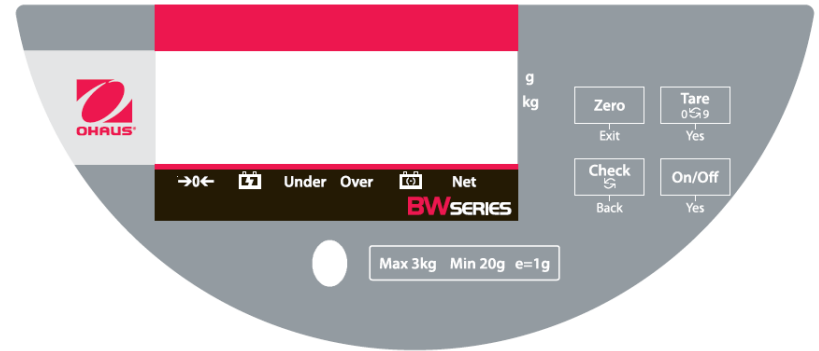|	Valor 1000	Valor 1000W	Valor 2000	Valor 3000	Valor 5000
Cap x Read	3gk x 0.5g	3kg x 0.5g	3kg x 0.5g	200g x 0.01g	3kg x 0.5g
	6kg x 1g	6kg x 1g	6kg x 1g	2000g x 0.1g	6kg x 1g
	15kg x 2g	15kg x 2g	15kg x 2g		15kg x 2g
	30kg x 5g	30kg x 5g			30kg x 5g
					3kg x 0.1g
					6kg x 0.2g
					15kgx 1g
					30kg x 1g
Housing	ABS Plastic	ABS Plastic	ABS Plastic	SS	ABS Plastic
IP Rating	None	"Water-Proof" IP65	All IP65	Some IP65	IP54
Max d	7,500d	7,500d	7,500d	40,000d	30,000d
Units	kg, g, lb, oz	kg, lb	kg, g, lb, oz	kg,lb,g,oz, lb:oz, dec oz, fr oz	kg,lb,g,oz, lb:oz, dec oz, fr oz
Display	Backlit LCD	LED	LED	Backlit LCD	Backlit LCD
Pan size	250x 180mm	257x192mm	229x184mm	146x158mm	209x209mm
Power	AC and IR lead acid	AC and IR lead acid	AC and IR lead acid	AC or 3 C battery	AC and IR lead acid
Type Approvals	NSF	None	NTEP/OIML	NTEP/OIML	NTEP/OIML
Certifications	None	None	NSF, USDA	NSF, USDA	NSF, USDA
Modes	Weigh, Check, Accumulate	Weigh, Check, Accumulate	weigh	Weigh, % S-gravity, Fl oz	Weigh, Check with LED

OHAUS

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BW

OHAUS

0.000

g
kg

→0← UNDER OVER NET

BW SERIES

Max 6 kg Min 40 g e = 2 g

End Zero | Tare 0↔9
Back↩ Check↩ | Yes On/Off Yes

OHAUS

g
kg

→0← Under Over Net

BW SERIES

Zero | Tare 0↔9
Exit | Yes

Check↩ | On/Off
Back | Yes

Max 3kg Min 20g e=1g

OHAUS

g
oz
lb

→0← Under Over Net

Capacity: 3 lb × 0.001 lb

Ingeniously Practical

BW

UNIQUE SELLING PROPOSITIONS	FEATURES
1: Speed, performance and durability in an affordable package	✭ Displays stable and accurate results within 2 seconds, maximizes productivity ✭ Checkweigh mode extends usage to checkweighing applications ✭ ABS plastic housing with stainless steel pan and sub-platform
2: Closed seal design	✭ Sealing design that prevents ingress of water, contaminants or insects into the housing ✭ Easily cleaned, sanitary design eliminates wash-through into housing; prevents buildup of contaminants and protects internal components
3: Portability	✭ Built-in rechargeable lead acid battery with 50-hour continuous operation time ✭ Operate the scale in the field and even in areas without power

Ingeniously Practical

Product Features

Feature: ABS plastic housing (top and bottom)
Stainless steel pan and sub-platform

Benefits: Durable material withstands abuse, impact damage and rough handling
Top and bottom housing with same material ensures consistent expansion

BW

Feature: Large stainless steel pan (Option)

Benefits: Extends usage of BW to applications weighing larger items; multi usage

Feature: Internal sealed rechargeable lead acid battery
50-hour operation on a full charge cycle (15 hours)

Benefits: Portable; can be carried and operated in various locations,
even in areas without power
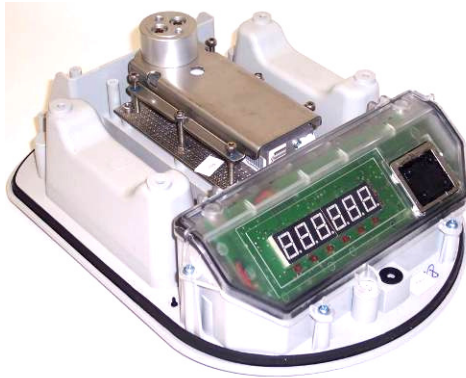Ensures a 5-day single-shift operation on a single charge

Feature: Closed-seal design with IP65 dust and water jet protection
Internal PC board sub-chambers are also gasket-sealed

Benefits: Closed design prevents water, contaminants or insects from entering the housing
Closed design also protects load cell

Feature: 4-point down-stop and 2-point up-stop protection
Stainless steel load cell support structure

Benefits: Help minimize damage from overcapacity or lifting of the
scale by the platform
Durable structure; maximizes load cell protection

Feature: Screwed-in sealed battery cover

Benefits: Fully sealed and no battery cover clips that can easily break off

Feature: Raised tactile keys
Prominent red LED display (Dual display models available now!)
Fast display update speed <= 2 seconds

Benefits: Easy to use, easy and quick to operate
Ready-to-use out-of-the-box

Ingeniously Practical

Thank You!