

## Veroval scale



Spec.-No.: D9.1730

Department: CMO-PPD

Date: 24.04.2017

### 1. General Product Description

Veroval scale is a digital personal scale for determination of body weight and several body fitness data for example the proportion of body fat, body water or bone mass. The scale is intended for personal use at home and not for medical nor for commercial use. The scale is not a medical device, thus the measured values are not intended to be used to take medical decisions.

The scale operates using the principle of bioelectric impedance analysis (BIA). An undetectable current is used to determine the body composition within seconds. By measuring the electrical resistance (impedance) and taking into account constants and individual values (age, height, sex, level of activity), the body fat percentage and other physical parameters can be determined.

The Veroval scale product is consisting of two main components: the intelligent scale (platform) and the detachable display (control unit).

Large, easy to read LCD display with further symbols for date & time, memory with memory number, user number, sex, weight units, age, body height, BMI, kcal, body fat percentage indicator, ideal weight indicator and weak battery status. With single memory delete function for any user.

Setting of date and time can be made by appropriate operation of the Set & Up/Down buttons after inserting the batteries into the control unit.

The device features one-button operation for weight measurement, automatic switch-off, memory function with capacity for a total of 30 readings for each of the four users (120 readings in total for all 4 users) for measured values including date and time including deletion function of individual readings.

The weight is displayed in 100-gram increments. The scale has the following analytical functions, which can be used by up to 4 people: weight measurement, determination of body fat percentage (BF), body water percentage, muscle percentage, bone mass and active metabolic rate (AMR).

The Veroval scale is battery-operated (2x type: CR2032 for the control unit | 3x type: AAA / LR03 for the platform). The detachable multi-functional display (control unit) can be connected to a PC using the supplied USB cable to transfer the measured values on PC using the "Veroval medi.connect" software.

Cleaning of the scale platform is possible with a slightly moistened cloth with water and a mild detergent.

Veroval scale is an electronic consumer device and bears the CE-mark in accordance with the Directive 2011/65/EU. (Veroval scale is no medical device.)

### 2. Application / Indication

For body weight and BIA-measurement of human adult persons.  
For home use.

### 3. Presentations

Each Veroval scale is separately packed in a gift box made of cardboard.  
The gift box also contains an instruction manual which includes a warranty card, USB cable and batteries for the detachable display and batteries for the platform.  
3 pieces/gift boxes are packed in one master carton.

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The product is available in 6 different language circles:

Article-No.:	Languages:	Packaging:
925371	DE, IT, FR	P1, OK3
925372	FR, AE, NL, DE	P1, OK3
925373	ES, PT, GB	P1, OK3
925374	CZ, SK, HU, BG	P1, OK3
925375	RU, RO, GR	P1, OK3
925376	PL, SI, HR, RS	P1, OK3

## 4. Conformity

The Veroval scale complies amongst others with the requirements of the following standards:

DIN EN 55032	“Electromagnetic compatibility of multimedia equipment - Emission Requirements”
DIN EN 55024	“Information technology equipment - Immunity characteristics - Limits and methods of measurement”
DIN EN 300220-1	“Electromagnetic compatibility and Radio spectrum Matters (ERM) - Short Range Devices (SRD) - Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW - Part 1: Technical characteristics and test methods”
DIN EN 300220-2	“Electromagnetic compatibility and Radio spectrum Matters (ERM) - Short Range Devices (SRD) - Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW - Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive”

## 5. Product Materials

Control unit:	
LCD display panel:	PMMA (Polymethylmethacrylate)
On/Off, Up/Down, Set buttons:	PMMA (Polymethylmethacrylate)
Housing, stand and battery cover:	PC (Polycarbonate)
Platform:	Safety Glass
Bottom housing and battery cover:	ABS (Acrylonitrile - Butadiene - Styrene)
Electrodes:	Stainless steel
Magnet cover:	Stainless steel

## 6. Packaging Materials

All packing materials and packing components are conform to the relevant essential requirements (specific to manufacturing and composition, reusable nature and recoverable nature of packing) of the Packaging and Packaging Waste Directive 94/62/EC and amended directive 2004/12/EC respectively.

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### 7. Product Characteristics

Measuring method:	Bioelectric Impedance Analysis (BIA)
Operation range:	Weight: 5 kg to 180 kg/ 4.4 lb to 400 lb/ 0.4 st to 28 st Bodyfat: 5 % - 50 % Bodywater: 25 % - 75 % Muscle: 25 % - 80 % Bone: male 1.5 kg - 21.1 kg; female 1.5 kg - 16.4 kg
Resolution:	Weight: 0,1 kg/ 0,2 lb/ 0.02 st Bodyfat: 0,1 % Bodywater: 0,1 % Muscle: 0,1 % Bone: 0,1 kg / 0.2 lb AMR: 1 kcal
Technical measuring accuracy:	Weight: $\pm 0.8 \%$ / $\pm 0.1$ kg Bodyfat: $\pm 1 \%$ Bodywater: $\pm 1 \%$ Muscle: $\pm 1 \%$ Bone: $\pm 0.2$ kg / $\pm 0.4$ lb AMR: $\pm 1\%$
Display:	LCD liquid crystal display
Memory capacity:	4 user memories with capacity of 30 readings
Operating conditions:	Ambient temperature: +5 °C to +35 °C, Relative humidity: 20 % - 95 %, non-condensing
Storage / transport conditions:	Ambient temperature: -20 °C to +55°C, Relative humidity: < 90 %, non-condensing
Power supply:	Platform: 3 x 1.5V Mignon alkaline-manganese (AAA/LR03) batteries Display: 2 x 3V Lithium coin cells (CR2032)
Battery capacity:	approx. 1 year for control unit; approx. 3 years for platform; (corresponds to ca. 1000 measurements)
Automatic switch-off:	40 s
Size:	Platform: ca. 320 x 320 x 22 mm Control unit: ca. 134 x 100 x 17 mm,
Weight (without batteries):	Platform: ca. 1.7 kg Control unit: ca. 127g
USB cable:	USB 2.0 cable A male to Micro
Radio transmission (scale and control unit):	433 MHz

(Technical modification subject to change)

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### 8. Labeling

#### Serial number:

Each device is labeled with a serial number (SN) on the detachable control unit (behind stand).

Contents of the serial number with 12-digit code:

e.g.:

2017	03	012345
year	week of production	production unit (6 digits)

#### Packaging batch:

The gift box and all other transport cartons are labeled with a 4-digit LOT code.

Contents of the LOT-number:

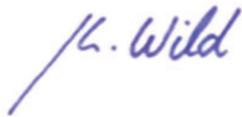
e.g.:

17	03
year	week of production

### 9. Packaging

One Veroval scale (incl. accessories) is packed in a gift box (folding box) and 3 pieces are packed in a master/transport carton. The transport cartons are sealed with special HARTMANN adhesive tapes and packed onto europallet.

Date: 27.04.2017



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PAUL HARTMANN AG  
Product Development Personal Health Care