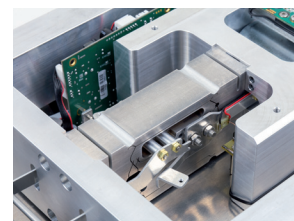


# PS 3Y.M Precision Balances

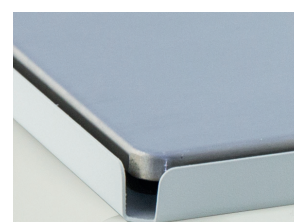
Professional weighing under laboratory and slightly challenging industrial conditions



PS 3Y.M, d = 0,01 g



Radwag MonoBLOCK™, an innovative weighing system



Draft shield improving weighing

## Functions

- |                |                       |                             |                     |                                |
|----------------|-----------------------|-----------------------------|---------------------|--------------------------------|
| Parts counting | Percent weighing      | Statistical quality control | Under hook weighing | Ambient conditions measurement |
| Dosing         | Statistics            | Autotest                    | GLP procedures      | Replaceable unit               |
| Checkweighing  | Animal weighing       | Density determination       | Proximity sensors   | Multilingual menu              |
| Formulations   | Differential weighing |                             |                     |                                |

## Features

### RADWAG MonoBLOCK™, an Innovative Weighing System

The most advanced weighing system technology allowing measurement with the readability of d=0.01 g at 10 kg maximum capacity. The mechanism guarantees stable repeatability over the whole product life cycle, it also ensures high resistance to ambient conditions change.

### Reliable Results and High Measurement Precision

Excellent measurement parameters and performance enable applying PS 3Y.M balances in laboratory and industry.

### Internal Adjustment Within the Whole Weighing Range

The internal adjustment system guarantees precision and high measurement repeatability. Leverage of an internal weight mass enables adjustment within the whole weighing range.

### Automatic Control of the Level

Levelling system facilitates adjustment of device level, it also uninterruptedly controls the level state, and informs about potential level deviations.

### New Construction of Weighing Pan Fastening

The innovative construction of PS 3Y.M balance features a new single-point weighing pan fastening, which ensures its excellent geometry and minimizes eccentricity error. The labyrinth-shape fastening guarantees great resistance to contamination.

### Reliable Results and High Measurement Precision

Excellent measurement parameters and performance enable applying PS 3Y.M balances in laboratories and various branches of industry.

### Intuitive Operation and Touch Screen

5.7" colour touch screen enables intuitive operation and easy access to numerous applications and functions of the weighing instrument.

### Numerous Options of Data Management

The instrument enables saving all data of carried out measurements as reports and graphs.

## Technical Specifications

	PS 4500.3Y.M	PS 6100.3Y.M	PS 8100.3Y.M	PS 10100.3Y.M
<b>Maximum capacity [Max]</b>	4500 g	6100 g	8100 g	10100 g
<b>Minimum load</b>	0.5 g	0.5 g	0.5 g	0.5 g
<b>Readability [d]</b>	0.01 g	0.01 g	0.01 g	0.01 g
<b>Verification scale interval [e]</b>	0.1 g	0.1 g	0.1 g	—
<b>Tare range</b>	-4500 g	-6100 g	-8100 g	-10100 g
<b>Repeatability (5% Max)*</b>	0.005 g	0.005 g	0.005 g	0.005 g
<b>Repeatability (Max)</b>	0.008 g	0.008 g	0.01 g	0.012 g
<b>Linearity</b>	±0.03 g	±0.03 g	±0.03 g	±0.03 g
<b>Sensitivity temperature drift**</b>	$2 \times 10^{-6} / ^\circ\text{C} \times \text{Rt}$	$2 \times 10^{-6} / ^\circ\text{C} \times \text{Rt}$	$2 \times 10^{-6} / ^\circ\text{C} \times \text{Rt}$	$2 \times 10^{-6} / ^\circ\text{C} \times \text{Rt}$
<b>Minimum weight (U=1%, k=2)</b>	1 g	1 g	1 g	1 g
<b>Minimum weight (USP)</b>	10 g	10 g	10 g	10 g
<b>Stabilization time</b>	1.5 s	1.5 s	1.5 s	1.5 s
<b>Adjustment</b>	internal	internal	internal	internal
<b>Verification</b>	YES	YES	YES	—
<b>OIML Class</b>	II	II	II	—
<b>Indicator fastening</b>	35 cm cable, wireless connection (option)***	35 cm cable, wireless connection (option)***	35 cm cable, wireless connection (option)***	35 cm cable, wireless connection (option)***
<b>Display</b>	5.7" colour, resistive touch screen	5.7" colour, resistive touch screen	5.7" colour, resistive touch screen	5.7" colour, resistive touch screen
<b>Keypad</b>	8 keys	8 keys	8 keys	8 keys
<b>Protection class</b>	IP 43	IP 43	IP 43	IP 43
<b>Databases</b>	19	19	19	19
<b>Touch-free operation</b>	2 programmable proximity sensors	2 programmable proximity sensors	2 programmable proximity sensors	2 programmable proximity sensors
<b>USB-A</b>	2	2	2	2
<b>Ethernet</b>	10 / 100 Mbit	10 / 100 Mbit	10 / 100 Mbit	10 / 100 Mbit
<b>RS 232</b>	2	2	2	2
<b>Wireless Connection</b>	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
<b>IN/OUT</b>	4 × IN, 4 × OUT	4 × IN, 4 × OUT	4 × IN, 4 × OUT	4 × IN, 4 × OUT
<b>Power supply</b>	13.5 ÷ 16 V	13.5 ÷ 16 V	13.5 ÷ 16 V	13.5 ÷ 16 V
<b>Power consumption</b>	10 W	10 W	10 W	10 W
<b>Operating temperature</b>	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
<b>Atmospheric humidity****</b>	40 ÷ 80%	40 ÷ 80 %	40 ÷ 80 %	40 ÷ 80 %
<b>Transport and storage temperature</b>	-20 ÷ +50 °C	-20 ÷ +50 °C	-20 ÷ +50 °C	-20 ÷ +50 °C
<b>Weighing pan dimensions</b>	195 × 195 mm	195 × 195 mm	195 × 195 mm	195 × 195 mm
<b>Weighing device dimensions</b>	425 × 251 × 99 mm	425 × 251 × 101 mm	425 × 251 × 101 mm	425 × 251 × 101 mm
<b>Net weight</b>	5.6 kg	6.8 kg	6.8 kg	6.8 kg
<b>Gross weight</b>	8.2 kg	9.4kg	9.4kg	9.4kg
<b>Packaging dimensions</b>	720 × 360 × 260 mm	716 × 360 × 260 mm	716 × 360 × 260 mm	716 × 360 × 260 mm

Rt net weight

\* repeatability is expressed as a standard deviation from 10 weighing cycles

\*\* parameter determined in the following temperature range: +15 ÷ +35 °C

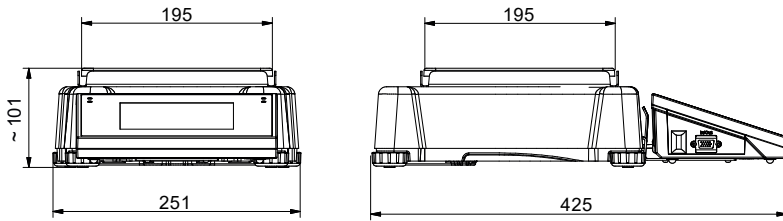
\*\*\* optional solution on purchase order

\*\*\*\* non-condensing conditions

In accordance with type approval, the balance parameters are maintained in temperature range: +15 ÷ +35 °C.

## Dimensions

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PS 3Y.M

## Accessories

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### Weighing Tables

- granite antivibration table
- antivibration tables for laboratory balances
- professional weighing table

### Professional Weighing

- KIT 195 density determination kit
- under-hook weighing rack

### Ambient Conditions

- THB-S / THB-P ambient conditions module

### Cables, Converters

- P0108: RS 232 cable (balance-computer)
- P0167: RS 232 cable (balance-computer)
- P0151: RS 232 cable (balance - Epson printer)

### Peripheral Devices

- Epson dot matrix printer
- label printer
- receipt printer
- barcode scanners
- PA-04/H Automatic Feeder
- WD-6 LCD display

### Electrical Accessories

- ZR-02 power supply with battery

### Remaining Accessories

- suitcase for PS

## Dedicated Software

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### R-LAB

- collecting measurements
- carrying out statistical analysis of measurements
- customized graphs and reports

### E2R Weighing Records

- complete, automated databases synchronization
- fully supported processes of labelling and parts counting
- record of weighings, weighings archiving
- basic and advanced (with graphs) reports

### E2R PGC

- synchronization of databases, operators, products schedules
- record of measurements and PGC controls carried out on weighing instruments linked in ETHERNET network
- quality assessment of pre- packaged goods based on acquired data

### Label Editor R02

- designing label templates
- sending graphics and fonts to label printers
- printing label templates using connected printers

### Audit Trail Reader

- support of Audit Trail function available for 3Y, 4Y, HY10, WLY, WPY series weighing instruments
- record of operator's activity from the moment of logging in

### Parameters Editor

- remote change of parameters
- remote on-line preview of the display
- displaying current mass indication
- software update
- file loading, editing and saving parameters to a file
- import and export of parameters
- interfaces: RS232, Ethernet and Wireless Connection
- quick and easy edition of balance parameters using computer

### 3Y Database Editor

- databases readout
- databases editing
- databases saving from a computer software to connected weighing instrument
- connection with 3Y balances via Ethernet and RS232

### RADWAG Remote Desktop

- remote operation via computer, mobile phone or tablet
- sending text messages
- version for Windows 10 and Android systems

### LabView Driver

- operation of RADWAG balances in LabView environment

### RAD KEY

- establishing cooperation between a weighing instrument and a computer

### RADWAG Development Studio

- presentation of functions (and subfunctions) of communication protocol (Common Communication Protocol)
- possibility of connection with weighing equipment on which each function is carried out
- library with mass control, contained within the development environment
- complete documentation of the communication protocol
- set of user manuals for different solutions addressed for programmers employed in companies using RADWAG-manufactured weighing equipment

### RADWAG Connect

- establishing communication with all balances, scales and weighing modules using Common Communication Protocol
- communication via local network
- support of basic functions
- auto searching for devices
- connecting with few devices simultaneously, swapping between them
- clear list of connected platforms
- record of measurements in the program
- export of carried out measurements to CSV file
- work performed using freely selected device with Windows 10 operating system