

PS X2.M Precision Balances

Advanced weighing under laboratory and less challenging industrial conditions



PS X2.M, d = 0,01 g



Radwag MonoBLOCK™, an innovative weighing system



Draft shield improving weighing

Functions

- Parts counting
- Percent weighing
- Density determination
- Peak hold
- Ambient conditions measurement
- Dosing
- Statistics
- Under hook weighing
- GLP procedures
- Replaceable unit
- Checkweighing
- Animal weighing
- Autotest
- Proximity sensors
- Multilingual menu
- Formulations

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 X2.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.

Customization via Widgets

PS X2.M software enables designing screen widgets layout. Display customization allows you to run any selected function directly from the home screen.

New Construction of Weighing Pan Fastening

The innovative construction of PS X2.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.

Ease of Use and Maximum Comfort of Operation

Thanks to a clear and intuitive menu layout and 5" colour touch screen, maximum comfort and incredibly easy operation are both ensured. Programmable proximity sensors offer touch-free operation of the device.

Numerous Options of Data Management

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

	PS 4500.X2.M	PS 6100.X2.M	PS 8100.X2.M	PS 10100.X2.M
Maximum capacity [Max]	4500 g	6100 g	8100 g	10100 g
Minimum load	0.5 g	0.5 g	0.5 g	0.5 g
Readability [d]	0.01 g	0.01 g	0.01 g	0.01 g
Verification scale interval [e]	0.1 g	0.1 g	0.1 g	—
Tare range	–4500 g	–6100 g	–8100 g	–10100 g
Repeatability (5% Max)*	0.005 g	0.005 g	0.005 g	0.005 g
Repeatability (Max)	0.008 g	0.008 g	0.01 g	0.012 g
Linearity	±0.03 g	±0.03 g	±0.03 g	±0.03 g
Sensitivity temperature drift**	$2 \times 10^{-6} / ^\circ\text{C} \times R_t$			
Minimum weight (U=1%, k=2)	1 g	1 g	1 g	1 g
Minimum weight (USP)	10 g	10 g	10 g	10 g
Stabilization time	1.5 s	1.5 s	1.5 s	1.5 s
Adjustment	internal	internal	internal	internal
Verification	Yes	Yes	Yes	—
OIML Class	II	II	II	—
Display	5" capacitive colour touch screen			
Keypad	6 keys	6 keys	6 keys	6 keys
Protection class	IP 43	IP 43	IP 43	IP 43
Databases	7	7	7	7
Touch-free operation	2 programmable proximity sensors			
USB-A	1	1	1	1
USB-B	1	1	1	1
RS 232	2	2	2	2
Wireless connection (option)***	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
IN/OUT	10 / 100 Mbit			
Power supply	12 ÷ 16 V DC			
Power consumption	4 W	4 W	4 W	4 W
Operating temperature	+10 ÷ +40 °C			
Atmospheric humidity****	40 ÷ 80%	40 ÷ 80%	40 ÷ 80%	40 ÷ 80%
Transport and storage temperature	–20 ÷ +50 °C			
Weighing pan dimensions	195 × 195 mm			
Weighing device dimensions	333 × 206 × 107 mm			
Net weight	4.5 kg	4.5 kg	4.5 kg	4.5 kg
Gross weight	6.1 kg	6.1 kg	6.1 kg	6.1 kg
Packaging dimensions	470 × 380 × 340 mm			

Rt net weight

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

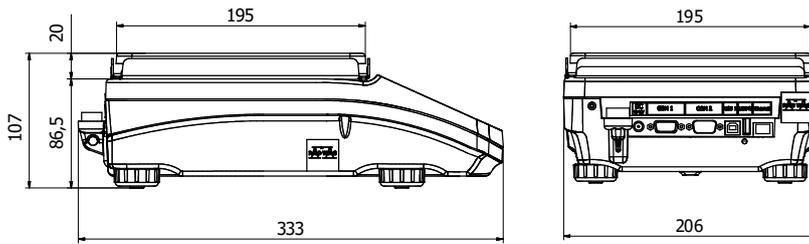
** parameter determined in the following temperature range: +15 ÷ +35 °C

*** 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



PS X2.M, d = 0.01 g

Accessories

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

Peripheral Devices

- Epson dot matrix printer
- label printer
- receipt printer
- barcode scanners
- WD-6 LCD display

Cables, Converters

- P0108: RS 232 cable (balance-computer)
- P0151: RS 232 cable (balance - Epson printer)
- USB cable type A-B
- AP2-1 power loop output

Electrical Accessories

- ZR-02 power supply with battery

Remaining Accessories

- protective cover for X2 series indicator
- suitcase for PS

Dedicated Software

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

Alibi Reader

- readout of data saved to Alibi memory
- export of data saved to Alibi memory
- data filtering and reports generating
- saving ALIBI database to CSV file

R.Barcode

- The basic function software is presentation of the data sent by barcode scanners connected to PC via USB or RS232

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

LabView Driver

- operation of RADWAG balances in LabView environment