



RADWAG XA 6.4Y.M.A Micro Balance with Automatic Door 6.1 g x 0.001 mg

4Y.M microbalances feature modern design that enables high accuracy and fast measurements. They are equipped with reliable measuring system housed within a tight casing. With this feature, the balance provides accuracy and fast measurement for almost any laboratory conditions. The electronic part of the balance features modern hardware and software architecture. Integrated software, 6.1 g x 0.001 mg with Automatic Door



Capacity x Readability

6.1 g x 0.001 mg

Pan Size

30 mm (Diameter)

Manufacture:

RADWAG

SKU: XA-6.4Y.M.A

Free Ground Shipping
within the 48 continental
US States

**Please Call
(800)832-0055**

Features

4Y.M microbalances feature modern design that enables high accuracy and fast measurements. They are equipped with reliable measuring system housed within a tight casing. With this feature, the balance provides accuracy and fast measurement for almost any laboratory conditions. The electronic part of the balance features modern hardware and software architecture. Integrated software, Windows Embedded Compact 7, Flash memory, Double Hardware System guarantee speed and reliability of collecting and processing information. 4Y.M series is equipped with 5.7" LCD colour touch screen which improves weighing instruments operation and presenting measurements results. Complex databases enable to register, print and export measurements. The weighing instrument system supports 13 languages. 4Y.M microbalance is an optimized modern tool equipped with an automatic levelling control system (LevelSENSING).

Customization option is based on individual operators' profiles and permissions levels that limit the access to the weighing instruments menu. Programmable proximity sensors offer wide range of possibilities: zeroing, taring, printing and more. Numerous functions, such as differential weighing, enable multi-step mass control of the same sample subjected to different processes. The software security system and the ability to document the process using printouts (standard/non-standard) ensures compliance of the weighing instruments with GLP/GMP systems in almost every area (pharmacy, petrochemistry, environment protection and many others).

- **The Highest Measurements Accuracy** XA 4Y.M microbalances feature the highest measurements accuracy, excellent repeatability and are compliant with USP requirements (Chapter 41 and 1251).
- **Intuitive Operation and Large Touch Screen** 5.7" color touch screen enables intuitive operation and

- easy access to numerous applications and functions of the weighing instrument
- **Touch-Free Operation** Two programmable proximity sensors can be assigned with any function or application. The given function when assigned is both run and operated touch-free
- **Combined Weighing Pan Shields** The new weighing pan shield design reduces disturbances caused by air drafts, and provides easy access to the weighing pan making dispensing of the samples comfortable
- **Vibrations Sensor** Continuous monitoring of vibrations informs the operator about vibrations level during operation. The solution improves reliability of carried out measurements, this is due to elimination of an accidental error caused by ground vibrations.
- **Defined Profiles** Four predefined profiles enable automatic balance parameters customization
- **Numerous Options of Data Management** Extensive storage capacity enables record of all measurement data in a form of complex reports and statistical graphs.

FUNCTIONS

- **AUTOTEST** -Diagnostic function aiming at metrological parameters determination (repeatability), the parameters are determined for the actual conditions of use. When speaking of repeatability it may be also used for weighing time optimization. Autotest is operated in an automatic mode thus operator's time is saved.
- **DOSING** - Weighing process for which reference mass has been determined together with tolerance for its determination. Dosing tolerance is given in [%] and it is calculated in relation to the reference value thus being a permissible deviation of this process. This solution is used for weighing powders, liquids and loose materials. Dosing function performance is often supported with bargraph - load indicator. For industrial scales it is possible to use a control systems of dosing process.
- **PERCENT WEIGHING** - Percent Weighing function is used for comparison of measured products with mass standard. Mass of a mass standard may be a numeric value taken from a database or it may be determined through a measurement process. Each measured product is compared to mass standard, mass of which is presumed as a model 100% ideal mass. For products weighing less than the mass standard, obtained results are lower than 100%, for products weighing more, the obtained results are greatly exceeded.
- **PARTS COUNTING** - Function using mass measurement for determination of measured items quantity. Mass of a single item is required for this process. It may be either estimated through weightment or taken from a database. For items counting the following algorithm is used: all items mass / single item mass = quantity. Function operation is supported by a mechanism of Automatic Correction of Accuracy. This allows to update single item mass in course of the process. To a certain extend Automatic Correction of Accuracy eliminates error which may be a result of different mass values of seemingly alike single elements. For industry solutions items counting may be simultaneously carried out with checkweighing and dosing thus industry solutions feature audio signalling base informing that specified number of items has been weighed. It is possible to apply weighing systems using few platfroms of different MAX capacities and different accuracies.
- **FORMULATION** - Function supporting the mixture making process, wherein the mixture contains various components. Formulation function usually uses the balance/scale database of components. Formulation serves for monitored checkweighing of every single component with a given tolerance. It is enriched with a set of individual settings.
- **STATISTICS** - Statistiscs function registers and analyses performed measurements. This supplies the user withthe following information: Max and Min standard deviation, average value, variance, range et.
- **CHECKWEIGHING** - Checkweighing function is used for checking whether the measured sample mass is within the predefined threshold values, Low [LO] and Hgh [HI]. The thresholds are given in [g] and [kg] units. Current state of a sample being measured is signalled by means of pictorgams located on a display for laboratory balances, for industrial scales Stackligt System is used. This visual +/- inspection is in operation during segregation, control or packing process of products for which mass has bees determined with a specifaied tolerance, eg. 12860 g 961
- **IR SENSORS** - Programmable function supporting the weighing process through control of the following options: sliding weighing chamber doors, printout, zeroing, tarring etc. Especially appreciated wherever preventing the balance from soiling is important.
- **GLP PROCEDURES** - Diagnostic function allowing to objectively document performed measurements. GLP procedures may be either presented in a short report form or extended one.
- **ANIMAL WEIGHING** - Process of mass determination for a product which may unwillingly reposition

within the weighing pan. Mass determination in such cases requires much longer period of time when compared to typical weighing process. It is the user who defines period of time needed for control of measured product mass. The user can thus optimize the function depending on the measured product characteristics.

- **AIR DENSITY CORRECTION** - Function performing correction of mass measurement indication, wherein the air density is taken into account. It is used in balances with reading unit < 0,01 mg.
- **DIFFERENTIAL WEIGHING** - Differential weighing informs about mass variation a particular sample, wherein the said variation is a result of manufacturing processes.
- **REPLACEABLE UNIT** - Replaceable units.
- **STATISTICAL QUALITY CONTROL** - Statistical control for determination of basic statistical criteria: maximum, minimum, standard deviation, mean values for each batch, etc..
- **AUTOMATIC SLIDING DOOR (XA 4Y.A Models Only)** - Door opened automatically

Specifications

Standard Model	XA-6.4Y.M	XA-6/21.4Y.M	XA-21.4Y.M	XA-21/52.4Y.M	XA-52.4Y.M
Model with Wireless Terminal	XA-6.4Y.M.B	XA-6/21.4Y.M.B	XA-21.4Y.M.B	XA-21/52.4Y.M.B	XA-52.4Y.M.B
Model with Automatic Door	XA-6.4Y.M.A	XA-6/21.4Y.M.A	XA-21.4Y.M.A	XA-21/52.4Y.M.A	XA-52.4Y.M.A
Model with Automatic Door & Wireless Terminal	XA-6.4Y.M.B.A	XA-6/21.4Y.M.B.A	XA-21.4Y.M.B.A	XA-21/52.4Y.M.B.A	XA-52.4Y.M.B.A
Capacity x Readability	6.1 g x 1 µg	6.1 g x 1 µg 21 g x 2 µg	21 g x 1 µg	21 g x 1 µg 52 g x 5 µg	52 g x 5 µg
Tare range	-6.1 g	-21 g	-21 g	-52 g	-52 g
Minimum load	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.5 mg
Standard repeatability [5% Max]	1 µg	1.2 µg	1.2 µg	1.8 µg	2.4 µg
Standard repeatability [Max]	2.5 µg	4 µg	4 µg	6 µg	6 µg
Permissible repeatability [5% Max]	1.4 µg	1.6 µg	1.6 µg	2.4 µg	3.4 µg
Permissible repeatability [Max]	3 µg	5 µg	5 µg	8 µg	8 µg
Linearity	±7 µg	±9 µg	±9 µg	±20 µg	±20 µg
Standard minimum weight (U=1%, k=2)	0.2 mg	0.24 mg	0.24 mg	0.36 mg	0.48 mg
Standard minimum weight (USP)	2 mg	2.4 mg	2.4 mg	3.6 mg	4.8 mg
Stabilization time	3.5 sec	3.5 sec	3.5 sec	3.5 sec	3.5 sec
Adjustment	internal (automatic)				

OIML Class	OIML Class I
Display	5.7" resistive colour touchscreen
Communication interface	2 x RS232, 2 x USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi®
Power supply	100 ÷ 240 V AC 50 / 60 Hz
Power consumption max.	700 mA (wireless terminal - 1A)
Operating temperature	+10 ÷ +40 °C
Relative humidity	40% ÷ 80%
Weighing chamber dimensions	168×163×228 mm
Weighing pan dimensions	ø30 mm
Packaging dimensions	720×385×485 mm
Net weight/th>	9.8 kg
Gross weight	14.3 kg

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