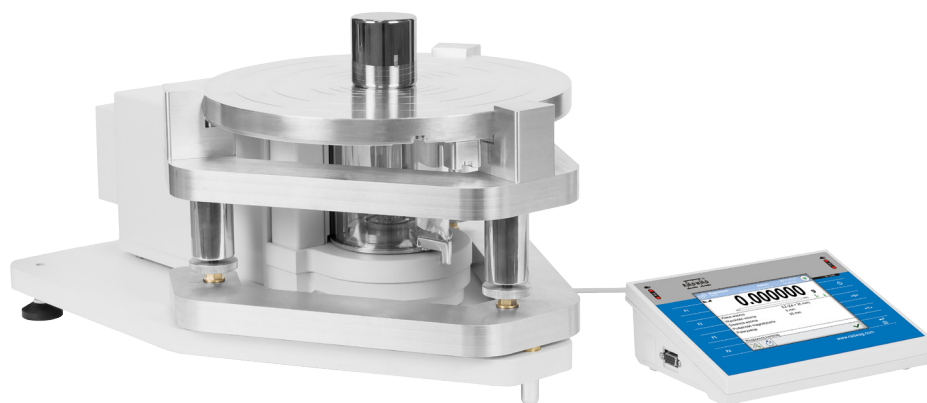


SM Susceptometer

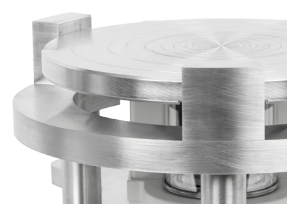
Maximum accuracy of the measurement of mass standard and weight magnetization



SM-MYA



SM-MYA as a mass comparator or as a balance



Uncomplicated way of changing the platform-magnet centre distance

Functions

 Magnetization	 Checkweighing	 Statistical quality control	 Automatic sliding door	 Ambient conditions measurement
 Mass comparator	 Formulations	 Autotest	 Cooperation with titrators	 Proximity sensors
 Parts counting	 Statistics	 Density determination	 GLP procedures	 Replaceable units
 Dosing	 Differential weighing	 Percent weighing	 Proximity sensors	 Multilingual menu

Features

Effective and Excellent Measurement

The SM susceptometer measures susceptibility and permanent magnetization of weights ranging from 2 g to 50 kg with the highest accuracy. The susceptometer is a complete reference solution for specifying the magnetic characteristics even for weights of class E1.

Intuitive Operation and Large Touch Screen

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

Versatile Weighing Platform

The device, due to its modular design, operates as a balance or a mass comparator, and upon assembling respective module it may also operate as a susceptometer.







Design and Functionality

The device features three different heights, from the mass standard base to the centre of the magnet.

Dedicated Software

Specially designed RMCS computer software enables comprehensive realisation of calibration procedures in laboratory. The system manages the whole calibration process, starting from the moment the order is placed, through procedure performance, to the moment of issuing the calibration certificate.







Technical Specifications

		SM-UYA-3.4Y	SM-MYA-5.4Y	SM-MYA-11.4Y
OIML calibration range E1		2 g ÷ 50 kg	2 g ÷ 50 kg	2 g ÷ 50 kg
OIML calibration range E2		2 g ÷ 50 kg	2 g ÷ 50 kg	2 g ÷ 50 kg
OIML calibration range F1		2 g ÷ 50 kg	2 g ÷ 50 kg	2 g ÷ 50 kg
OIML calibration range F2		2 g ÷ 50 kg	2 g ÷ 50 kg	2 g ÷ 50 kg
OIML calibration range M1		—	—	—
OIML calibration range M2		—	—	—
Maximum capacity [Max]		50 kg	50 kg	50 kg
Readability [d]		0.1 µg	1 µg	1 µg
Stabilization time		10 s	10 s	10 s
Adjustment		internal	internal	internal
Dipole moment of magnets		≤ 0.1 Am ²	≤ 0.1 Am ²	≤ 0.1 Am ²
Platform-magnet centre distance		20; 27; 43 mm	20; 27; 43 mm	20; 27; 43 mm
Magnetic field		2000, 800, 200 A/m	2000, 800, 200 A/m	2000, 800, 200 A/m
Display		5.7" colour resistive touch screen	5.7" colour resistive touch screen	5.7" colour resistive touch screen
Keypad		8 keys	8 keys	8 keys
Ingress protection - indicator		IP 43	IP 43	IP 43
Touch-free operation		2 programmable sensors	2 programmable sensors	2 programmable sensors
USB-A		2	2	2
Ethernet		10 / 100 Mbit	10 / 100 Mbit	10 / 100 Mbit
RS 232		2	2	2
Wireless Connection		802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
IN/OUT		4 × IN, 4 × OUT	4 × IN, 4 × OUT	4 × IN, 4 × OUT
Power supply		13.5 ÷ 16 V DC	13.5 ÷ 16 V DC	13.5 ÷ 16 V DC
Operating temperature		+15 ÷ +30 °C	+15 ÷ +30 °C	+15 ÷ +30 °C
Operating temperature change rate		±0.5 °C / 12 h (±0.3 °C / 4 h)	±0.5 °C / 12 h (±0.3 °C / 4 h)	±0.5 °C / 12 h (±0.3 °C / 4 h)
Relative humidity variations		±2% / 4 h	±2% / 4 h	±2% / 4 h
Relative humidity**		40 ÷ 60%	40 ÷ 60%	40 ÷ 60%
Transport and storage temperature		−20 ÷ +50 °C	−20 ÷ +50 °C	−20 ÷ +50 °C
Weighing pan dimensions		ø 300 mm	ø 300 mm	ø 300 mm
Susceptometer dimensions*		525 × 246 × 350 mm	525 × 246 × 350 mm	525 × 246 × 350 mm
Indicator dimensions*		206 × 140 × 70 mm	206 × 140 × 70 mm	206 × 140 × 70 mm
Net weight		27 kg	27 kg	27 kg
Gross weight		53 kg	53 kg	53 kg
Packaging dimensions*		950 × 750 × 760 mm	950 × 750 × 760 mm	950 × 750 × 760 mm

* dimensions: length x width x height

** non-condensing conditions

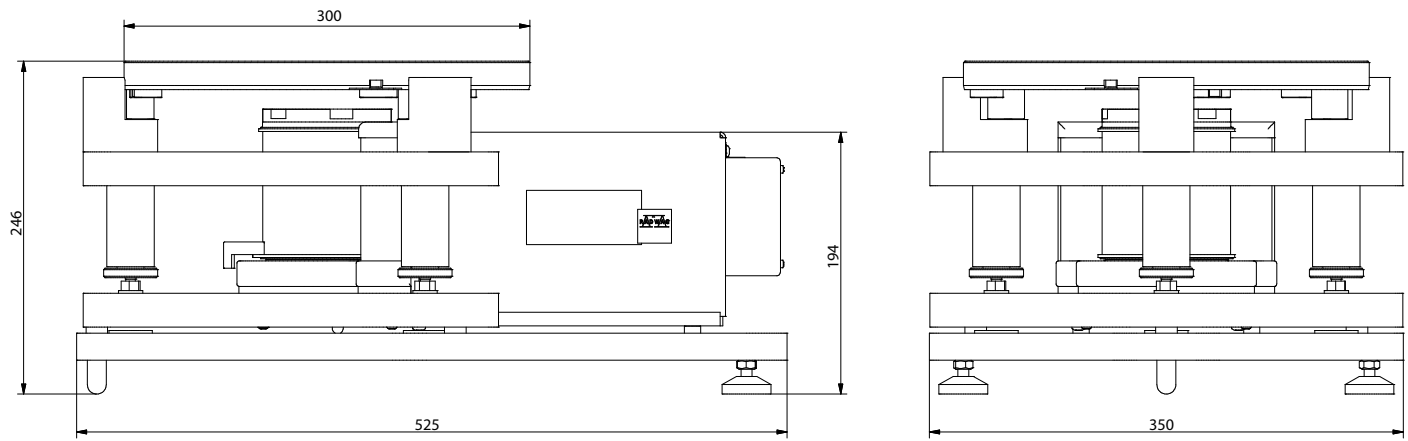
SM-UYA-5.4Y.KO

OIML calibration range E1		2 g ÷ 50 kg
OIML calibration range E2		2 g ÷ 50 kg
OIML calibration range F1		2 g ÷ 50 kg
OIML calibration range F2		2 g ÷ 50 kg
OIML calibration range M1		—
OIML calibration range M2		—
Maximum capacity [Max]		50 kg
Readability [d]		0,1 µg
Stabilization time		10 s
Adjustment		internal
Dipole moment of magnets		≤ 0,1 Am ²
Platform-magnet centre distance		20; 27; 43 mm
Magnetic field		2000, 800, 200 A/m
Display		5.7" colour resistive touch screen
Keypad		8 keys
Ingress protection - indicator		IP 43
Touch-free operation		2 programmable sensors
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Ethernet		10 / 100 Mbit
RS 232		2
Wireless Connection		802.11 b/g/n
IN/OUT		4 × IN, 4 × OUT
Power supply		13,5 ÷ 16 V DC
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** non-condensing conditions

Dimensions



SM-UYA

Accessories

Weighing Tables

- granite anti-vibration table
- anti-vibration table for laboratory balances
- professional weighing table

Ambient Conditions

- THB-S or THB-P sensor

Peripheral Devices

- Epson dot matrix printer
- barcode scanner
- WD-5/3Y LCD display (backlit)

Cables, Converters

- RS-232 – P0108 computer cable
- RS-232 – P0167 computer cable
- RS-232 – P0151 Epson printer cable

Electrical Accessories

- power supply with ZR-02 battery

Dedicated Software

RMCS System

- performance of calibration procedures in a laboratory from the moment the order is placed, to the moment of issuing a calibration certificate
- compatible with THB sensors enabling recording ambient conditions
- export of report results to various files
- archiving calibration protocols, orders, certificates and ambient conditions

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

Label Editor R02

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

Pipettes

- determining measurement errors of pipettes volume
- accordance with ISO 8655
- calibration of single and multi-channel pipettes
- calibration of pipettes of fixed and adjustable volume

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

RAD KEY

- collecting measurements
- different ways of initializing the process of acquiring data from the weighing instrument and sending it to a computer
- readout of characters transmitted via RS 232 to a computer

R. Barcode

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

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

LabView Driver

- support of RADWAG-manufactured weighing instruments operating in LabView environment

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

RADWAG Remote Desktop

- remote control of the mass comparator using computer, telephone or tablet
- sending text messages
- version for Windows 10 and Android systems