

# ANALYTICAL BALANCES

## DS R2 PLUS



### Product Overview

Innovative design and system solutions for standard-class products



Communication interfaces



Large LCD display with text information section



Parts counting



Percent weighing



Density determination



GLP procedures



Ambient conditions measurement



Dosing



Statistics



Under hook weighing



Totalizing



Replaceable unit



Checkweighing



Animal weighing



Peak hold



Alibi memory



Multilingual menu



Formulations



Autotest



### Product Features

#### Ergonomic Mechanical Design

Spacious weighing chamber and large open-door clearance allow easy access to the weighing pan and facilitate use of laboratory glassware of various sizes and dimensions. Improved aluminium base of the balance guarantees stability of the weighing system. DUAL-CLICK system facilitates tool-free disassembly and assembly of the weighing chamber. Locating the USB interface at the balance front makes it easier to communicate with peripherals.

#### Levelling System

Clearly visible levelling device located at the front of the weighing chamber facilitates level control.

#### Antistatic Weighing Chamber

Weighing chamber panes feature antistatic coating compensating electrostatic charges on the sample and accessories used for mass measurement.

\*Antistatic coating has been applied in balances with the readability of  $d=0.01\text{mg}$

#### Uncomplicated and Intuitive Operation

Large, easy-to-read LCD display offers not only a clear presentation of the weighing result, but also enables displaying messages related to the drying process as well as pictograms of active functions and working modes. Quick access keys located on the operation panel enable you to run a given function with just one click.

#### Data Management

DS R2 PLUS information system is based on operators, products, weighings and tares databases. All saved data can be analysed, exported, imported or exchanged between weighing instruments.

#### ALIBI Memory

Internal ALIBI memory guarantees safety and automatic record of measurements copies, it also offers possibility to preview, copy and archive data.

#### Kensington Lock

DS R2 PLUS balances are equipped with Kensington Lock, which allows to secure the device against theft.

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## DS R2 PLUS

TECHNICAL SPECIFICATIONS				
	DS 110.R2 PLUS	DS 82/220.R2 PLUS	DS 220.R2 PLUS	DS 310.R2 PLUS
Maximum capacity [Max]	110 g	82 g / 220 g	220 g	310 g
Minimum load	10 mg	1 mg	10 mg	10 mg
Readability [d]	0.1 mg	0.01 mg / 0.1 mg	0.1 mg	0.1 mg
Verification scale interval [e]	1 mg	1 mg	1 mg	1 mg
Tare range	-110 g	-220 g	-220 g	-310 g
Standard values				
Repeatability(5% Max)*	0.05 mg	0.012 mg	0.06 mg	0.07 mg
Repeatability(Max)*	0.06 mg	0.07 mg	0.07 mg	0.1 mg
Minimum weight (USP)	100 mg	24 mg	120 mg	140 mg
Minimum weight (U=1%, k=2)	10 mg	2.4 mg	12 mg	14 mg
Permissible values				
Repeatability(5% Max)*	0.07 mg	0.015 mg	0.08 mg	0.1 mg
Repeatability(Max)*	0.1 mg	0.1 mg	0.1 mg	0.15 mg
Linearity	± 0.2 mg	± 0.05 mg / ±0.2 mg	± 0.2 mg	± 0.3 mg
Stabilization time***	2 s	2 s	2 s	2.5 s
Adjustment	internal	internal	internal	internal
Verification	Yes	Yes	Yes	Yes
OIML Class	I	I	I	I
Display	LCD (with backlight)	LCD (with backlight)	LCD (with backlight)	LCD (with backlight)
Keypad	14 keys	14 keys	14 keys	14 keys
Protection class	IP 43	IP 43	IP 43	IP 43
Databases	5	5	5	5
USB-A	1	1	1	1
USB-B	1	1	1	1
RS 232	2	2	2	2
Wi-Fi® ****	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
Power supply	12 ÷ 16 V DC	12 ÷ 16 V DC	12 ÷ 16 V DC	12 ÷ 16 V DC
Power consumption	3 W	3 W	3 W	3 W
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Atmospheric humidity*****	40 ÷ 80%	40% ÷ 80%	40 ÷ 80%	40 ÷ 80%
Transport and storage temperature	-20 ÷ +50 °C	-20 ÷ +50 °C	-20 ÷ +50 °C	-20 ÷ +50 °C
Weighing pan dimensions	ø 100 mm	ø 90 mm open-work ø 85 mm standard (option)*	ø 100 mm	ø 100 mm
Weighing chamber dimensions	160 × 168 × 227 mm	160 × 168 × 227 mm	160 × 168 × 227 mm	160 × 168 × 227 mm
Weighing device dimensions	333 × 206 × 355 mm	333 × 206 × 325 mm	333 × 206 × 355 mm	333 × 206 × 355 mm
Net weight	5.3 kg	5.3 kg	5.3 kg	5.3 kg
Gross weight	7.3 kg	7.3 kg	7.3 kg	7.3 kg
Packaging dimensions	495 × 400 × 515 mm	495 × 400 × 515 mm	495 × 400 × 515 mm	495 × 400 × 515 mm