



ANALYTICAL BALANCE



India Office

16 S/F B/S, T-Block Extn.
Jain Colony Part-2 Uttam Nagar,
New Delhi-110059
info@darsunscientific.in
(+91) 9999136670, 7835864003

USA Headquarters

30 N Gould St, Ste R
Sheridan, Wyoming 82801
United States

DarsunScientific



Darsun Scientific

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Product Overview

Advanced level measurements, maximum operation comfort and countless display customization options

Product Features

1. High Quality Measurements and Weighing Performance
2. Combination of easy operation and excellent weighing accuracy
3. makes DS X2 balances an ideal solution for most of the demanding applications in laboratory processes.
4. Excellent Weighing Parameters and Comfort of Operation
5. Thanks to a clear and intuitive menu layout and 5" colour touch screen,
6. maximum comfort and incredibly easy operation are both ensured.
7. Customization via Widgets
8. DS X2 software enables designing screen widgets layout. Display customization allows you to run any selected function directly from the
9. home screen.
10. Numerous Options of Data Management
11. Extensive storage capacity enables record of all measurement data in a form of complex reports.
12. Second to None Repeatability and Compliance with USP
13. DS X2 analytical balances feature the highest measurements accuracy, excellent repeatability and are compliant with USP requirements (Chapter 41 and 1251).
14. Spacious Weighing Chamber
15. Large weighing chamber enables convenient operation using laboratory vessels of different dimensions.
16. Touch-Free Operation
17. Two programmable proximity sensors can be assigned with any function or application. The given function when assigned is both run and operated touch-free.

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

ANALYTICAL BALANCES DS X2

Model	DS 60/220.X2	DS 82/220.X2
Maximum capacity [Max]	60 g / 220 g	82 g / 220 g
Minimum load	1 mg	1 mg
Readability [d]	0.01 mg / 0.1 mg	0.01 mg / 0.1 mg
Verification scale interval [e]	1 mg	1 mg
Tare range	-220 g	-220 g
Repeatability (5% Max)*	0.015 mg (Rt ≤ 3 g)	0.015 mg (Rt ≤ 5 g)
Repeatability (Max)*	0.1 mg	0.1 mg
Linearity	± 0.06 mg / ±0.2 mg	± 0.06 mg / ±0.2 mg
Sensitivity temperature drift**	$1 \times 10^{-6} / ^\circ\text{C} \times \text{Rt}$	$1 \times 10^{-6} / ^\circ\text{C} \times \text{Rt}$
Minimum weight (U=1%, k=2)	3 mg	3 mg
Minimum weight (USP)	30 mg	30 mg
Stabilization time***	2 s	2 s
Adjustment	internal	internal
Verification	Yes	Yes
OIML Class	I	I
Display	5" capacitive colour touch screen	5" capacitive colour touch screen
Keypad	6 keys	6 keys
Protection class	IP 43	IP 43
Databases	7	7
Touch-free operation	2 programmable proximity sensors	2 programmable proximity sensors
USB-A	1	1
USB-B	1	1
RS 232	2	2
Wireless connection	802.11 b/g/n	802.11 b/g/n
Ethernet	10 / 100 Mbit	10 / 100 Mbit
Power supply	12 ÷ 16 V DC	12 ÷ 16 V DC
Power consumption	4 W	4 W
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C
Atmospheric humidity****	40 ÷ 80%	40 ÷ 80%
Transport and storage temperature	-20 ÷ +50 °C	-20 ÷ +50 °C
Weighing pan dimensions	ø 90 mm open-work ø 85 mm standard (option)*****	ø 90 mm open-work ø 85 mm standard (option)*****
Weighing chamber dimensions	160 × 168 × 223 mm	160 × 168 × 223 mm
Weighing device dimensions	333 × 206 × 355 mm	333 × 206 × 355 mm
Net weight	5.3 kg	5.3 kg
Gross weight	7.3 kg	7.3 kg
Packaging dimensions	495 × 400 × 515 mm	495 × 400 × 515 mm

Model	DS 220.X2	DS 310.X2
Maximum capacity [Max]	220 g	310 g
Minimum load	10 mg	10 mg
Readability [d]	0.1 mg	0.1 mg
Verification scale interval [e]	1 mg	1 mg
Tare range	-220 g	-310 g
Repeatability (5% Max)*	0.07 mg (Rt ≤ 10 g)	0.07 mg (Rt ≤ 15 g)
Repeatability (Max)*	0.1 mg	0.15 mg
Linearity	± 0.2 mg	± 0.3 mg
Sensitivity temperature drift**	$1 \times 10^{-6} / ^\circ\text{C} \times \text{Rt}$	$1 \times 10^{-6} / ^\circ\text{C} \times \text{Rt}$
Minimum weight (U=1%, k=2)	14 mg	14 mg
Minimum weight (USP)	140 mg	140 mg
Stabilization time***	2 s	2,5 s
Adjustment	internal	internal
Verification	Yes	Yes
OIML Class	I	I
Display	5" capacitive colour touch screen	5" capacitive colour touch screen
Keypad	6 keys	6 keys
Protection class	IP 43	IP 43
Databases	7	7
Touch-free operation	2 programmable proximity sensors	2 programmable proximity sensors
USB-A	1	1
USB-B	1	1
RS 232	2	2
Wireless connection	802.11 b/g/n	802.11 b/g/n
Ethernet	10 / 100 Mbit	10 / 100 Mbit
Power supply	12 ÷ 16 V DC	12 ÷ 16 V DC
Power consumption	4 W	4 W
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C
Atmospheric humidity****	40 ÷ 80%	40 ÷ 80%
Transport and storage temperature	-20 ÷ +50 °C	-20 ÷ +50 °C
Weighing pan dimensions	ø 100 mm	ø 100 mm
Weighing chamber dimensions	160 × 168 × 227 mm	160 × 168 × 227 mm
Weighing device dimensions	333 × 206 × 355 mm	333 × 206 × 355 mm
Net weight	5.3 kg	5.3 kg
Gross weight	7.3 kg	7.3 kg
Packaging dimensions	495 × 400 × 515 mm	495 × 400 × 515 mm