



More information on the website  
radwag.com/en/info,w1,YAK

## AS 310.5Y Analytical Balance



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The drawings, photos and graphics used are for illustrative purposes only.

## Functions



Autotest



Dosing



Percent Weighing



Parts counting



Peak hold



Formulation



Newton unit  
measurement



Statistics



Checkweighing



IR sensors



GLP Procedures



Animal weighing



Pipettes Calibration



Air density correction



Density determination



Differential weighing



Ambient conditions  
monitoring



Statistical Quality Control



Packaged Goods Control



ALIBI Memory



Wi-Fi

# Datasheet

|  | AS 310.5Y Analytical Balance  |
|--|---|
| <b>Metrological parameters</b>         |   |
| Maximum capacity [Max]                 | 310 g   |
| Minimum load                           | -   |
| Readability [d]                        | 0,1 mg  |
| Verification unit [e]                  | -   |
| Tare range                             | -310 g  |
| Standard repeatability [5% Max]        | 0,07 mg   |
| Standard repeatability [Max]           | 0,1 mg  |
| Standard minimum weight (USP)          | 140 mg  |
| Standard minimum weight (U=1%, k=2)    | 14 mg   |
| Permissible repeatability [5% Max]     | 0,12 mg   |
| Permissible repeatability [Max]        | 0,15 mg   |
| Linearity                              | ±0,3 mg   |
| Stabilization time                     | 2,5 s   |
| Adjustment                             | internal (automatic)  |
| OIML Class                             | -   |
| <b>Physical parameters</b>             |   |
| Leveling system                        | semi-automatic - LevelSENSING   |
| Display                                | 10" graphic colour touchscreen  |
| Weighing chamber doors                 | manual  |
| Delivery components                    | Balance, weighing pan, weighing pan shield, bottom cover, power supply.           |
| Weighing chamber dimensions            | 190×190×227 mm  |
| Weighing pan dimensions                | ø100 mm   |
| Packaging dimensions                   | 600×400×550 mm  |
| Net weight                             | 7,3 kg  |
| Gross weight                           | 9,3 kg  |
| <b>Construction</b>                    |   |
| Protection class                       | IP 43   |
| <b>Components and software</b>         |   |
| Database capacity                      | 7   |
| <b>Features of use</b>                 |   |
| Touch-free operation                   | 2 IR Sensors  |
| <b>Communication interface</b>         |   |
| Communication interface                | 2×USB-A, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot                                    |
| <b>Electrical parameters</b>           |   |
| Power supply                           | Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A<br>Balance: 12 – 15V DC 0,8A max |
| Power consumption max.                 | 4 W   |
| <b>Environmental conditions</b>        |   |
| Operating temperature                  | +10 ÷ +40 °C  |
| Ambient conditions monitoring (option) | THBR 2.0 System, THBR BOX, THB P, THB W, THB S                                    |
| Relative humidity                      | 40% ÷ 80%   |

Repeatability is expressed as a standard deviation from 10 weighing cycles. Stabilization time depends on the ambient conditions and the dynamics of weighing pan loading; specified for FAST profile. 1 Barcode scanners, available as weighing instrument accessory, communicate with the instrument via RS232 interface exclusively.



## Accessories

Antivibration Tables  
Holders for laboratory flasks  
Power Adapters  
RS 232, RS 485 cables  
Cigarette lighter receptacle power supply cables  
Density determination KIT  
Additional modules  
USB cable (scale - printer)  
Professional Weighing Tables  
Protective cover for balances  
Barcode scanners  
Holders for test tubes and filters

Workstation for Pipettes Calibration  
THBR 2.0 System - Ambient Conditions Monitoring  
Weighing dishes  
Antistatic ionizer  
Receipt Printer  
Fingerprint Reader  
RS 232, RS 485 cables  
Protective cover for balances  
Under-pan weighing  
RS 232 cables (scale - printer)  
RS 232 – RS 485 Converter

## Software

E2R System  
Label Editor R02  
R-LAB  
RADWAG Development Studio

RAD-KEY  
RADWAG Remote Desktop  
Scales Editor 2.1

## Device dimensions

