RADWAG®

WLY Precision Balances

Maximum functionality and unlimited possibilities
in professional mass measurement processes

WLY F1/R
direct indicator-platform connection

WLY F1/K
1 m cable connection

WLY C2/R
direct indicator-platform connection

WLY C2/K
2.5 m cable connection

WLY D2

Functions

Parts counting	Percent weighing	Density determination	Labelling	Proximity sensors
Dosing	Statistics	Peak hold	Totalizing	Replaceable unit
Checkweighing	Animal weighing	Differential weighing	Under hook weighing	Multilingual menu
Formulations				

Features

Reliable Results and High Measurement Precision
Excellent measurement parameters and performance enable applying WLY balances in laboratories and numerous industry areas.

Multifunctional Software and Unlimited Capabilities
Broad range of functions and applications for weighing and cooperation with peripheral equipment (barcode scanners, printers, etc.) make WLY balance a powerful weighing instrument.

Labelling System
Special software and cooperation with labellers enable printing out labels for currently measured samples and products (e.g. in the packaging process).

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

Numerous Variants of Weighing Pan Dimensions
Numerous variants of weighing pan dimensions enable selecting the best weighing instrument suiting specific requirements and needs of a particular user.

Wide Capacity Range for Different Applications
Due to an exceptionally wide range of capacities it is possible to work with samples of different weight, from few grams to even over one hundred kilograms.

Technical Specifications

	WLY 1/D2	WLY 2/D2	WLY 6/D2	WLY 10/D2	WLY 20/D2
Maximum capacity [Max]	1 kg	2 kg	6 kg	10 kg	20 kg
Minimum load	—	—	5 g	—	—
Readability [d]	0.01 g	0.01 g	0.1 g	0.1 g	0.1 g
Verification scale interval [e]	—	—	1 g	—	—
Tare range	−1 kg	−2 kg	6 kg	−10 kg	−20 kg
Repeatability*	0.03 g	0.03 g	0.1 g	0.3 g	0.3 g
Linearity	± 0.03 g	± 0.03 g	± 0.1 g	± 0.3 g	± 0.3 g
Stabilization time	3 s	3 s	3 s	3 s	3 s
Adjustment	external	external	—	external	external
Verification	—	—	Yes	—	—
OIML Class	—	—	II	—	—
Indicator fastening	35 cm cable	35 cm cable	35 cm cable	35 cm cable	35 cm cable
Display	5.7" colour, resistive touch screen	5.7" colour, resistive touch screen	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	8 keys	8 keys
Protection class	IP 43	IP 43	IP 43	IP 43	IP 43
Databases	14	14	14	14	14
Touch-free operation	2 programmable proximity sensors	2 programmable proximity sensors	2 programmable proximity sensors	2 programmable proximity sensors	2 programmable proximity sensors
USB-A	2	2	2	2	2
RS 232	2	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	802.11 b/g/n
Ethernet	10 / 100 Mbit	10 / 100 Mbit	10 / 100 Mbit	10 / 100 Mbit	10 / 100 Mbit
IN/OUT	4 × IN, 4 × OUT	4 × IN, 4 × 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	13.5 ÷ 16 V DC	13.5 ÷ 16 V DC
Max power consumption	10 W	10 W	10 W	10 W	10 W
Operating temperature	+15 ÷ +30 °C	+15 ÷ +30 °C	+15 ÷ +30 °C	+15 ÷ +30 °C	+15 ÷ +30 °C
Atmospheric humidity****	10 ÷ 85% RH	10 ÷ 85% RH	10 ÷ 85% RH	10 ÷ 85% RH	10 ÷ 85% RH
Transport and storage temperature	−25 ÷ +70 °C	−25 ÷ +70 °C	−25 ÷ +70 °C	−25 ÷ +70 °C	−25 ÷ +70 °C
Weighing pan dimensions	195 × 195 mm	195 × 195 mm	195 × 195 mm	195 × 195 mm	195 × 195 mm
Weighing device dimensions	403 × 216 × 82 mm	403 × 216 × 82 mm	403 × 216 × 82 mm	403 × 216 × 82 mm	403 × 216 × 82 mm
Net weight	2,7 kg	2,7 kg	2,7 kg	2,7 kg	2,7 kg
Gross weight	3,6 kg	3,6 kg	3,6 kg	3,6 kg	3,6 kg
Packaging dimensions	490 × 300 × 150 mm	490 × 300 × 150 mm	490 × 300 × 150 mm	490 × 300 × 150mm	490 × 300 × 150mm

* repeatability is expressed as a standard deviation from 10 weighing cycles
** non-condensing conditions
In accordance with type approval, the balance parameters are maintained in temperature range: +15 ÷ +35 °C.
Wi-Fi® is a registered trademark of Wi-Fi® Alliance.

Technical Specifications

	WLY 6/F1/R WLY 6/F1/K	WLY 12/F1/R WLY 12/F1/K	WLY 30/F1/R WLY 30/F1/K	WLY 60/C2/R WLY 60/C2/K	WLY 120/C2/R WLY 120/C2/K
Maximum capacity [Max]	6 kg	12 kg	30 kg	60 kg	120 kg
Minimum load	5 g	—	—	50 g	—
Readability [d]	0.1 g	0.2 g	0.5 g	1 g	2 g
Verification scale interval [e]	1 g	—	—	10 g	—
Tare range	−6 kg	−12 kg	−30 kg	−60 kg	−120 kg
Repeatability*	0.1 g	0.6 g	1 g	1.5 g	2 g
Linearity	±0.1 g	±0.6 g	±1 g	±1.5 g	±2 g
Stabilization time	3 s	3 s	3 s	3 s	3 s
Adjustment	—	external	external	—	external
Verification	Yes	—	—	Yes	—
OIML Class	II	—	—	II	—
Indicator fastening	direct connection (R), 1 m cable connection (K)	direct connection (R), 1 m cable connection (K)	direct connection (R), 1 m cable connection (K)	direct connection (R) 2.5 m cable connection (K)	direct connection (R) 2.5 m cable connection (K)
Display	5.7" colour, resistive touch screen	5.7" colour, resistive touch screen	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	8 keys	8 keys
Protection class	IP 43	IP 43	IP 43	IP 43	IP 43
Databases	14	14	14	14	14
Touch-free operation	2 programmable proximity sensors	2 programmable proximity sensors	2 programmable proximity sensors	2 programmable proximity sensors	2 programmable proximity sensors
USB-A	2	2	2	2	2
RS 232	2	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	802.11 b/g/n
Ethernet	10 / 100 Mbit	10 / 100 Mbit	10 / 100 Mbit	10 / 100 Mbit	10 / 100 Mbit
IN/OUT	4 × IN, 4 × OUT	4 × IN, 4 × 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	13.5 ÷ 16 V DC	13.5 ÷ 16 V DC
Max power consumption	10 W	10 W	10 W	10 W	10 W
Operating temperature	+15 ÷ +30 ℃	+15 ÷ +30 ℃	+15 ÷ +30 ℃	+15 ÷ +30 ℃	+15 ÷ +30 ℃
Atmospheric humidity***	10 ÷ 85% RH	10 ÷ 85% RH	10 ÷ 85% RH	10 ÷ 85% RH	10 ÷ 85% RH
Transport and storage temperature	−25 ÷ +70 ℃	−25 ÷ +70 ℃	−25 ÷ +70 ℃	−25 ÷ +70 ℃	−25 ÷ +70 ℃
Weighing pan dimensions	300 × 300 mm	300 × 300 mm	300 × 300 mm	500 × 400 mm	500 × 400 mm
Weighing device dimensions	465 × 300 × 70 mm	465 × 300 × 70 mm	465 × 300 × 70 mm	567 × 502 × 105 mm	567 × 502 × 105 mm
Net weight	5,2 kg	5,2 kg	5,2 kg	12,5 kg	12,5 kg
Gross weight	6 kg	6 kg	6 kg	15 kg	15 kg
Packaging dimensions	570 × 390 × 170 mm	570 × 390 × 170 mm	570 × 390 × 170 mm	720× 580 × 220mm	720× 580 × 220mm

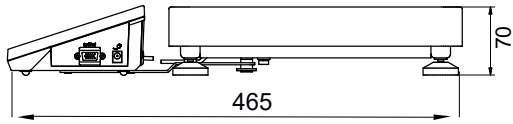*   repeatability is expressed as a standard deviation from 10 weighing cycles
**   non-condensing conditions
In accordance with type approval, the balance parameters are maintained in temperature range: +15 ÷ +35 ℃.
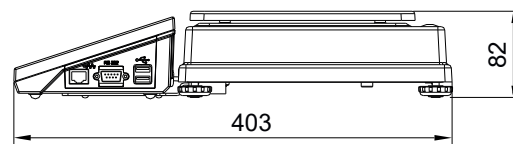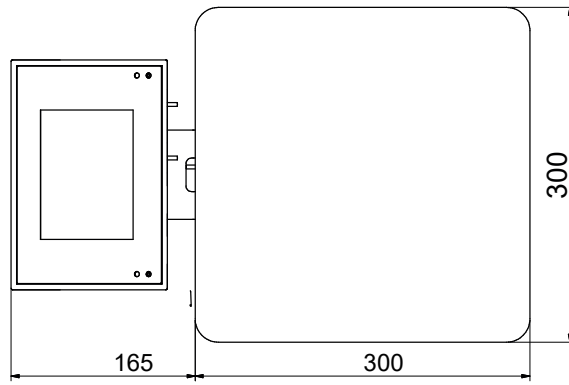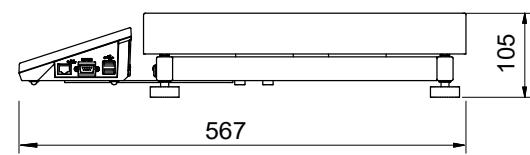Wi-Fi® is a registered trademark of Wi-Fi® Alliance.

Dimensions

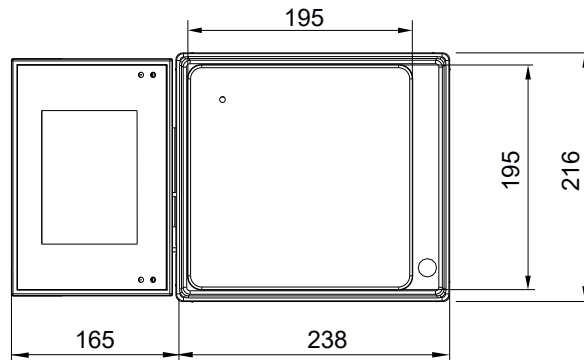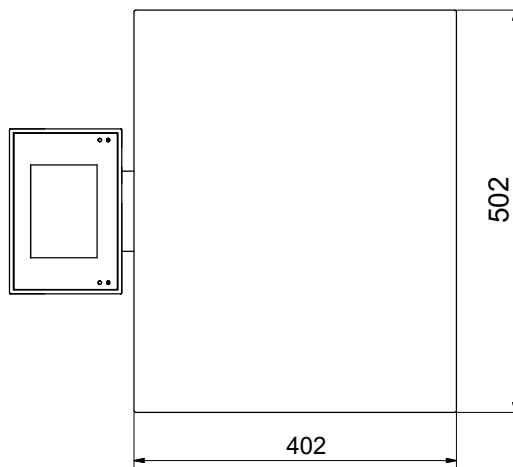F1 version

D2 version

C2 version

Accessories

Weighing Tables
• granite antivibration table

Peripheral Devices
• Epson dot matrix printer
• barcode scanners
• WD-4/1 LCD display

Cables, Converters
• P0108: RS 232 cable (balance-computer)
• P0167: RS 232 cable (balance-computer)
• P0151: RS 232 cable (balance - Epson printer)
• PT0128 cable
• AP2-1 power loop output

Dedicated Software

R-LAB
• collecting measurements
• carrying out statistical analysis of measurements
• customized graphs and reports

E2R PGC
• synchronization of databases, operators, products schedules
• record of measurements and PGC controls carried out on weighing instruments linked in ETHERNET network
• quality assessment of pre- packaged goods based on acquired data

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

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

RAD KEY
• Establishing cooperation between a weighing instrument and a computer

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

3Y Database Editor
• databases readout
• databases editing
• databases saving - from com   r software to connected weighing instrument
• connection with 3Y balances via Ethernet and 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
• operation of RADWAG balances 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 operation via computer, mobile phone or tablet
• sending text messages
• version for Windows 10 and Android systems

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.

E2R Formulations
• carrying out simple formulations
• support of an advanced formulations orders function
• warehouse management
• optional automatic dispensing and constant correction of the dispensing process
• control of an ingredient using the barcode scanner

E2R Weighings
• record of measurements carried out using the weighing indicators
• online monitoring of the production lines
• weighing thresholds control
• employees working time reporting