

# **WLY Precision Balances**

Maximum functionality and unlimited possibilities in professional mass measurement processes







WLY F1/K 1 m cable connection



WLY C2/R direct indicator-platform connection



WIYC2/K 2.5 m cable connection

## **Functions**

WLY D2



Dosing





Formulations





Statistics



Animal weighing





Peak hold





Labelling



Totalizing

Under hook

weighing



Replaceable unit

Proximity

sensors



Multilingual menu

## **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				
Display	5.7" colour, resistive touch screen				
Keypad	8 keys				
Protection class	IP 43				
Databases	14	14	14	14	14
Touch-free operation	2 programmable proximity sensors				
USB-A	2	2	2	2	2
RS 232	2	2	2	2	2
Wireless connection	802.11 b/g/n				
Ethernet	10 / 100 Mbit				
IN/OUT	$4 \times IN, 4 \times OUT$				
Power supply	13.5 ÷ 16 V DC				
Power consumption	12 W				
Operating temperature	+15 ÷ +30 °C	+15 ÷ +30 ℃	+15 ÷ +30 ℃	+15 ÷ +30 ℃	+15 ÷ +30 ℃
Atmospheric humidity****	10 ÷ 85% RH				
Transport and storage temperature	-25 ÷ +70 °C				
Weighing pan dimensions	195 × 195 mm				
Weighing device dimensions	403 × 216 × 82 mm				
Net weight	2,7 kg				
Gross weight	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.

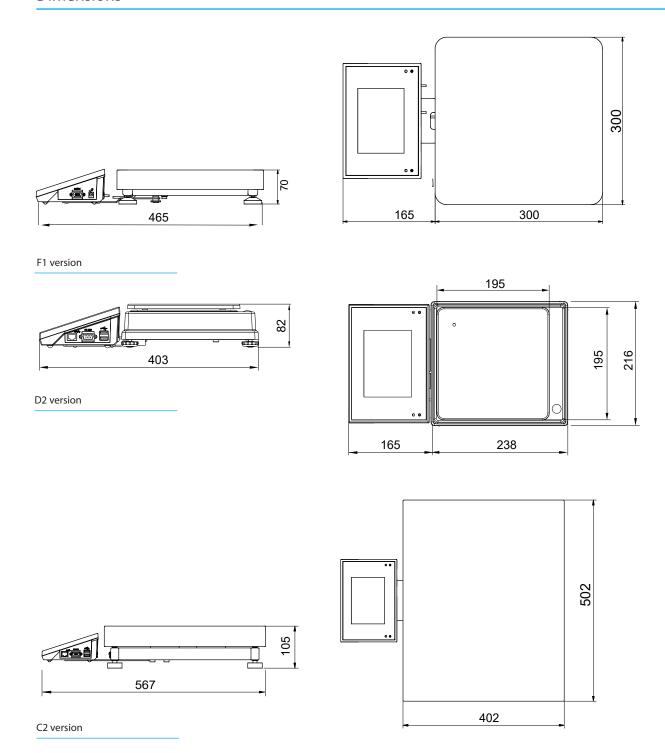
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	WLY 6/F1/R WLY 6/F1/K	WLY 12/F1/R WLY 12/F1/K	WLY 30/F1/R WLY 30/F1/K	WLY 60/C2/R WLY 60/C2/K	WLY 120/C2/R WLY 120/C2/K
Maximum capacity [Max]	6 kg	12 kg	30 kg	60 kg	120 kg
Minimum load	5 g	_	_	50 g	_
Readability [d]	0.1 g	0.2 g	0.5 g	1 g	2 g
Verification 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	1.5 g	1 g	2 g
Linearity	±0.1 g	±0.6 g	±1.5 g	±1 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			
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			
USB-A	2	2	2	2	2
RS 232	2	2	2	2	2
Wireless connection	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			
IN/OUT	$4 \times IN, 4 \times OUT$	$4 \times IN, 4 \times OUT$			
Power supply	13.5 ÷ 16 V DC	13.5 ÷ 16 V DC			
Power consumption	12 W	12 W	12 W	12 W	12 W
Operating temperature	+15 ÷ +30 ℃	+15 ÷ +30 ℃	+15 ÷ +30 °C	+15 ÷ +30 °C	+15 ÷ +30 °C
Atmospheric humidity****	10 ÷ 85% RH	10 ÷ 85% RH			
Transport and storage temperature	-25 ÷ +70 °C	-25 ÷ +70 °C			
Weighing pan dimensions	300 × 300 mm	300 × 300 mm	$300 \times 300 \text{ mm}$	500 × 400 mm	500 × 400 mm
Weighing device dimensions	$465 \times 300 \times 70 \text{ mm}$	$465 \times 300 \times 70 \text{ mm}$	$465 \times 300 \times 70 \text{ mm}$	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

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<sup>\*\*</sup> non-condensing conditions In accordance with type approval, the balance parameters are maintained in temperature range: +15  $\div$  +35 °C.



#### 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