



More information on the website  
[radwag.com/en/info,w1,6Z1](https://radwag.com/en/info,w1,6Z1)

WLY 1/D2 Precision Balance, WLY 60/C2/K Precision Balance, WLY 6/D2 Precision Balance, WLY 2/D2 Precision Balance, WLY 10/D2 Precision Balance, WLY 60/C2/R Precision Balance, WLY 30/F1/K Precision Balance, WLY 30/F1/R Precision Balance, WLY 12/F1/K Precision Balance, WLY 12/F1/R Precision Balance, WLY 120/C2/R Precision Balance, WLY 6/F1/R Precision Balance, WLY 20/D2 Precision Balance, WLY 120/C2/K Precision Balance, WLY 6/F1/K Precision Balance



WLY 1/D2 Precision Balance  
 WLY 6/D2 Precision Balance  
 WLY 2/D2 Precision Balance  
 WLY 10/D2 Precision Balance  
 WLY 20/D2 Precision Balance



WLY 60/C2/K Precision Balance  
 WLY 120/C2/K Precision Balance



WLY 60/C2/R Precision Balance  
 WLY 120/C2/R Precision Balance



WLY 30/F1/K Precision Balance  
 WLY 12/F1/K Precision Balance  
 WLY 6/F1/K Precision Balance



WLY 30/F1/R Precision Balance  
 WLY 12/F1/R Precision Balance  
 WLY 6/F1/R Precision Balance

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

## Functions



Dosing



Labelling



Plus/Minus Control



Percent Weighing



Totalizing



Parts counting



Peak hold



Formulation



Newton unit measurement



Statistics



Checkweighing



IR sensors



Animal weighing



Differential weighing



ALIBI Memory

# Datasheet

	WLY 1/D2 Precision Balance	WLY 2/D2 Precision Balance	WLY 6/D2 Precision Balance
<b>Metrological parameters</b>			
<b>Maximum capacity [Max]</b>	1 kg	2 kg	6 kg
<b>Minimum load</b>	-	-	5 g
<b>Readability [d]</b>	0,01 g	0,01 g	0,1 g
<b>Verification unit [e]</b>	-	-	1 g
<b>Tare range</b>	-1 kg	-2 kg	-6 kg
<b>Repeatability</b>	0,03 g	0,03 g	0,1 g
<b>Linearity</b>	±0,03 g	±0,03 g	±0,1 g
<b>Stabilization time</b>	3 s	3 s	3 s
<b>Adjustment</b>	external	external	
<b>OIML Class</b>	-	-	II
<b>Physical parameters</b>			
<b>Leveling system</b>	manual	manual	manual
<b>Display</b>	5,7" Resistiv-Farb-Touchscreen	5,7" Resistiv-Farb-Touchscreen	
<b>Weighing pan dimensions</b>	195×195 mm	195×195 mm	195×195 mm
<b>Packaging dimensions</b>	530×310×150 mm	530×310×150 mm	530×310×150 mm
<b>Net weight</b>	2,7 kg	2,7 kg	2,7 kg
<b>Gross weight</b>	3,6 kg	4,22 kg	3,5 kg
<b>Construction</b>			
<b>Protection class</b>	IP 43	IP 43	IP 43
<b>Communication interface</b>			
<b>Communication interface</b>	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi
<b>Electrical parameters</b>			
<b>Power supply</b>	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 10 – 28V DC 1A max	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 10 – 28V DC 1A max	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 10 – 28V DC 1A max
<b>Environmental conditions</b>			
<b>Operating temperature</b>	+15 ÷ +30 °C	+15 ÷ +30 °C	+15 ÷ +30 °C
<b>Storage temperature</b>	-25 - +70 °C	-25 - +70 °C	-25 - +70 °C
<b>Relative humidity</b>	10% ÷ 85% RH no condensation	10% ÷ 85% RH no condensation	10% ÷ 85% RH no condensation

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.

# Datasheet

	WLY 6/F1/R Precision Balance	WLY 6/F1/K Precision Balance	WLY 10/D2 Precision Balance
<b>Metrological parameters</b>			
<b>Maximum capacity [Max]</b>	6 kg	6 kg	10 kg
<b>Minimum load</b>	5 g	5 g	-
<b>Readability [d]</b>	0,1 g	0,1 g	0,1 g
<b>Verification unit [e]</b>	1 g	1 g	-
<b>Tare range</b>	-6 kg	-6 kg	-10 kg
<b>Repeatability</b>	0,1 g	0,1 g	0,3 g
<b>Linearity</b>	±0,1 g	±0,1 g	±0,3 g
<b>Stabilization time</b>	3 s	3 s	3 s
<b>Adjustment</b>			external
<b>OIML Class</b>	II	II	-
<b>Physical parameters</b>			
<b>Leveling system</b>	manual	manual	manual
<b>Display</b>			
<b>Weighing pan dimensions</b>	300×300 mm	300×300 mm	195×195 mm
<b>Packaging dimensions</b>	570×390×170 mm	570×390×170 mm	530×310×150 mm
<b>Net weight</b>	5,2 kg	5,2 kg	2,7 kg
<b>Gross weight</b>	6 kg	6 kg	3,6 kg
<b>Construction</b>			
<b>Protection class</b>	IP 43	IP 43	IP 43
<b>Communication interface</b>			
<b>Communication interface</b>	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi
<b>Electrical parameters</b>			
<b>Power supply</b>	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 10 – 28V DC 1A max	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 10 – 28V DC 1A max	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 10 – 28V DC 1A max
<b>Environmental conditions</b>			
<b>Operating temperature</b>	+15 ÷ +30 °C	+15 ÷ +30 °C	+15 ÷ +30 °C
<b>Storage temperature</b>	-25 - +70 °C	-25 - +70 °C	-25 - +70 °C
<b>Relative humidity</b>	10% ÷ 85% RH no condensation	10% ÷ 85% RH no condensation	10% ÷ 85% RH no condensation

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.

# Datasheet

	WLY 12/F1/R Precision Balance	WLY 12/F1/K Precision Balance	WLY 20/D2 Precision Balance
<b>Metrological parameters</b>			
<b>Maximum capacity [Max]</b>	12 kg	12 kg	20 kg
<b>Minimum load</b>	-	-	-
<b>Readability [d]</b>	0,2 g	0,2 g	0,1 g
<b>Verification unit [e]</b>	-	-	-
<b>Tare range</b>	-12 kg	-12 kg	-20 kg
<b>Repeatability</b>	0,6 g	0,6 g	0,3 g
<b>Linearity</b>	±0,6 g	±0,6 g	±0,3 g
<b>Stabilization time</b>	3 s	3 s	3 s
<b>Adjustment</b>	external	external	external
<b>OIML Class</b>	-	-	-
<b>Physical parameters</b>			
<b>Leveling system</b>	manual	manual	manual
<b>Display</b>			
<b>Weighing pan dimensions</b>	300×300 mm	300×300 mm	195×195 mm
<b>Packaging dimensions</b>	570×390×170 mm	570×390×170 mm	530×310×150 mm
<b>Net weight</b>	5,2 kg	5,2 kg	2,7 kg
<b>Gross weight</b>	6 kg	6 kg	3,6 kg
<b>Construction</b>			
<b>Protection class</b>	IP 43	IP 43	IP 43
<b>Communication interface</b>			
<b>Communication interface</b>	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi
<b>Electrical parameters</b>			
<b>Power supply</b>	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 10 – 28V DC 1A max	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 10 – 28V DC 1A max	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 10 – 28V DC 1A max
<b>Environmental conditions</b>			
<b>Operating temperature</b>	+15 ÷ +30 °C	+15 ÷ +30 °C	+15 ÷ +30 °C
<b>Storage temperature</b>	-25 - +70 °C	-25 - +70 °C	-25 - +70 °C
<b>Relative humidity</b>	10% ÷ 85% RH no condensation	10% ÷ 85% RH no condensation	10% ÷ 85% RH no condensation

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.

# Datasheet

	WLY 30/F1/K Precision Balance	WLY 30/F1/R Precision Balance	WLY 60/C2/R Precision Balance
<b>Metrological parameters</b>			
<b>Maximum capacity [Max]</b>	30 kg	30 kg	60 kg
<b>Minimum load</b>	-	-	-
<b>Readability [d]</b>	0,5 g	0,5 g	1 g
<b>Verification unit [e]</b>	-	-	10 g
<b>Tare range</b>	-30 kg	-30 kg	-60 kg
<b>Repeatability</b>	1 g	1 g	1,5 g
<b>Linearity</b>	±1 g	±1 g	±3 g
<b>Stabilization time</b>	3 s	3 s	3 s
<b>Adjustment</b>	external	external	
<b>OIML Class</b>	-	-	II
<b>Physical parameters</b>			
<b>Leveling system</b>	manual	manual	manual
<b>Display</b>			
<b>Weighing pan dimensions</b>	300×300 mm	300×300 mm	400×500 mm
<b>Packaging dimensions</b>	570×390×170 mm	570×390×170 mm	720×620×210 mm
<b>Net weight</b>	5,2 kg	5,2 kg	12,5 kg
<b>Gross weight</b>	6 kg	6 kg	15 kg
<b>Construction</b>			
<b>Protection class</b>	IP 43	IP 43	IP 43
<b>Communication interface</b>			
<b>Communication interface</b>	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi
<b>Electrical parameters</b>			
<b>Power supply</b>	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 10 – 28V DC 1A max	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 10 – 28V DC 1A max	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 10 – 28V DC 1A max
<b>Environmental conditions</b>			
<b>Operating temperature</b>	+15 ÷ +30 °C	+15 ÷ +30 °C	+15 ÷ +30 °C
<b>Storage temperature</b>	-25 - +70 °C	-25 - +70 °C	-25 - +70 °C
<b>Relative humidity</b>	10% ÷ 85% RH no condensation	10% ÷ 85% RH no condensation	10% ÷ 85% RH no condensation

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.

# Datasheet

	WLY 60/C2/K Precision Balance	WLY 120/C2/R Precision Balance	WLY 120/C2/K Precision Balance
<b>Metrological parameters</b>			
Maximum capacity [Max]	60 kg	120 kg	120 kg
Minimum load	-	-	-
Readability [d]	1 g	2 g	2 g
Verification unit [e]	10 g	-	-
Tare range	-60 kg	-120 kg	-120 kg
Repeatability	1,5 g	2 g	2 g
Linearity	±3 g	±2 g	±2 g
Stabilization time	3 s	3 s	3 s
Adjustment		external	external
OIML Class	II	-	-
<b>Physical parameters</b>			
Leveling system	manual	manual	manual
Display			
Weighing pan dimensions	400×500 mm	400×500 mm	400×500 mm
Packaging dimensions	720×620×210 mm	720×620×210 mm	720×620×210 mm
Net weight	12,5 kg	12,5 kg	12,5 kg
Gross weight	15 kg	15 kg	14,5 kg
<b>Construction</b>			
Protection class	IP 43	IP 43	IP 43
<b>Communication interface</b>			
Communication interface	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi
<b>Electrical parameters</b>			
Power supply	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 10 – 28V DC 1A max	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 10 – 28V DC 1A max	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 10 – 28V DC 1A max
<b>Environmental conditions</b>			
Operating temperature	+15 ÷ +30 °C	+15 ÷ +30 °C	+15 ÷ +30 °C
Storage temperature	-25 - +70 °C	-25 - +70 °C	-25 - +70 °C
Relative humidity	10% ÷ 85% RH no condensation	10% ÷ 85% RH no condensation	10% ÷ 85% RH no condensation

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.

\* Wi-Fi® is a registered trademark of Wi-Fi® Alliance.



## Accessories

Antivibration Tables  
 Transponder card readers  
 Power Adapters  
 RS 232 cables (scale - printer)  
 Cigarette lighter receptacle power supply cables  
 Barcode scanners  
 Under-pan weighing  
 RS 232, RS 485 cables

Displays  
 IN/OUT Cables  
 Keypad, external switches  
 Stands, wall mounting kits and mounting brackets  
 Receipt Printer  
 F1 Mass Standard - knob weights without adjustment chamber, set  
 AP2-1 Current Loop Unit  
 RS 232, RS 485 cables

USB Hubs  
Label Printers  
Additional modules

Additional Weighing platforms Module  
RS 232 – USB Converter  
RS 232 cables (scale - printer)

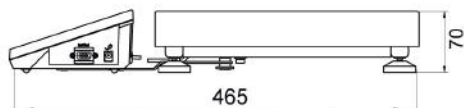
## Software

E2R System  
Audit Trail Reader  
RADWAG Remote Desktop  
Scales Editor 2.1

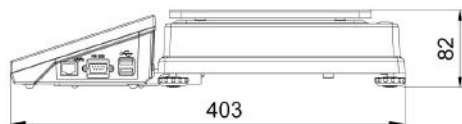
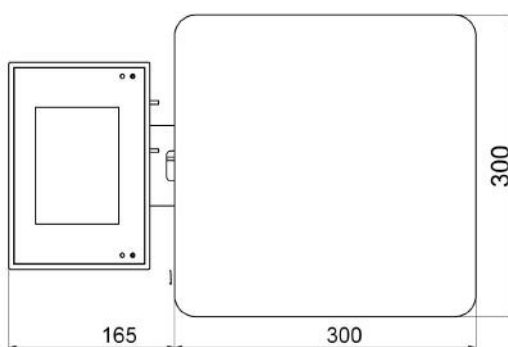
RAD-KEY  
Label Editor R02  
R-LAB  
RADWAG Development Studio

## Device dimensions

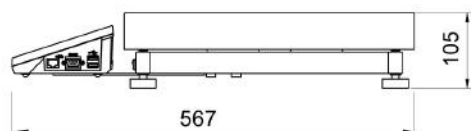
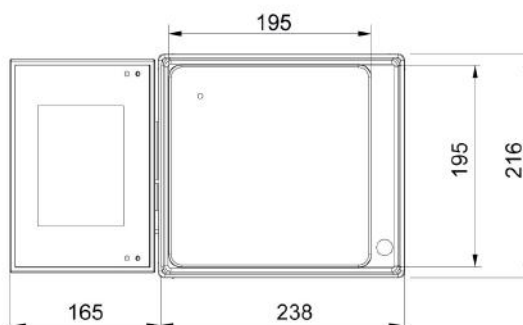
WLY 1/D2 Precision Balance, WLY 60/C2/K Precision Balance, WLY 6/D2 Precision Balance, WLY 2/D2 Precision Balance, WLY 10/D2 Precision Balance, WLY 60/C2/R Precision Balance, WLY 30/F1/K Precision Balance, WLY 30/F1/R Precision Balance, WLY 12/F1/K Precision Balance, WLY 12/F1/R Precision Balance, WLY 120/C2/R Precision Balance, WLY 6/F1/R Precision Balance, WLY 20/D2 Precision Balance, WLY 120/C2/K Precision Balance, WLY 6/F1/K Precision Balance



F1 version



D2 version



C2 version

