

# PL.HRP.H High Resolution Scales

Unrivalled accuracy of weighing large loads  
in moist environment and at direct contact with water.



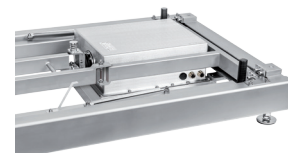
PL.HRP.H  
Max: 150 – 2000 kg



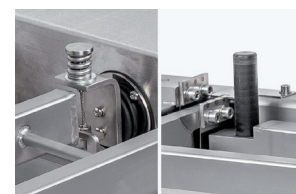
PL.HRP.H  
Max: 16 – 32 kg



PL.HRP.H  
Max: 62 – 120 kg



High resolution weighing  
module in a hermetic housing



System protecting against  
overloading and mechanical  
shocks

## Features

### The Most Precise Weighing Results in Industrial Conditions

Advanced PL.HRP.H platform enables fast and precise mass measurements in challenging industrial conditions. The scale enables carrying out measurements with very high resolutions available so far only for laboratory balances.

### Cooperation with PUE HY10, PUE 5 and PUE 7.1 Indicators

The platform can be operated via advanced PUE HY10, PUE 5 and PUE 7.1 indicators controlled by Windows system.

### Reliability and Safety

Robust platform made of stainless steel and high ingress protection allow to operate the scale in moist environment and at direct contact with water (e.g. meat and fish industry, etc.). The protection system against overloads and mechanical shocks ensures durability and endurance in everyday use.

### Automatic Adjustment

Internal adjustment system guarantees the highest accuracy and reliable measurements results.

## Technical Specifications

	PL.16.HRP.H*	PL.32.HRP.H*	PL.62.HRP.H
<b>Maximum capacity [Max]</b>	16 kg	32 kg	62 kg
<b>Preload</b>	4 kg	4 kg	30 kg
<b>Minimum capacity</b>	5 g	5 g	25 g
<b>Readability [d]</b>	0.1 g	0.1 g	0.5 g
<b>Verification unit [e]</b>	—	—	—
<b>Tare range</b>	-16 kg	-32 kg	-62 kg
<b>Repeatability **</b>	0.1 g	0.1 g	0.3 g
<b>Linearity</b>	±0.1 g	±0.3 g	±1 g
<b>Stabilization time ***</b>	2 s	2 s	3 s
<b>Adjustment</b>	internal	internal	internal
<b>Verification</b>	—	—	—
<b>OIML class</b>	—	—	—
<b>Platform material</b>	AISI304 stainless steel	AISI304 stainless steel	AISI304 stainless steel
<b>Weighing pan material</b>	AISI304 stainless steel	AISI304 stainless steel	AISI304 stainless steel
<b>Ingress protection - platform</b>	IP 66/67	IP 66/67	IP 66/67
<b>RS 232</b>	1	1	1
<b>RS 485</b>	1	1	1
<b>Ethernet</b>	10 / 100 Mbit	10 / 100 Mbit	10 / 100 Mbit
<b>IN/OUT****</b>	2 × IN, 2 × OUT	2 × IN, 2 × OUT	2 × IN, 2 × OUT
<b>PROFIBUS module****</b>	DP SLAVE	DP SLAVE	DP SLAVE
<b>Power supply</b>	100 ÷ 240 V AC 50 ÷ 60 Hz	100 ÷ 240 V AC 50 ÷ 60 Hz	100 ÷ 240 V AC 50 ÷ 60 Hz
<b>Power consumption</b>	5 W	5 W	5 W
<b>Operating temperature</b>	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
<b>Relative humidity *****</b>	15 ÷ 80%	15 ÷ 80%	15 ÷ 80%
<b>Transport and storage temperature</b>	-10 ÷ +50 °C	-10 ÷ +50 °C	-10 ÷ +50 °C
<b>Weighing pan dimensions</b>	360 × 280 mm	360 × 280 mm	500 × 500 mm
<b>Net weight</b>	20,5 kg	20,5 kg	37 kg
<b>Gross weight</b>	24,5 kg	24,5 kg	47 kg
<b>Platform packaging dimensions</b>	550 × 463 × 350 mm	550 × 463 × 350 mm	700 × 700 × 295 mm

\* MonoBLOCK™ measuring system

\*\* repeatability is expressed as a standard deviation from 10 weighing cycles

\*\*\* under optimum ambient conditions

\*\*\*\* optional interfaces installed interchangeably (for optional configuration: RS232 + PROFIBUS or RS232 + Ethernet + RS485 + 2xIN + 2xOUT)

\*\*\*\*\* non-condensing conditions

	PL.120.HRP.H	PL.150.HRP.H	PL.300.HRP.H
<b>Maximum capacity [Max]</b>	120 kg	150 kg	300 kg
<b>Preload</b>	10 kg	30 kg	30 kg
<b>Minimum capacity</b>	50 g	50 g	100 g
<b>Readability [d]</b>	1 g	1 g	2 g
<b>Verification unit [e]</b>	—	—	—
<b>Tare range</b>	-120 kg	-150 kg	-300 kg
<b>Repeatability *</b>	0.6 g	1.5 g	3 g
<b>Linearity</b>	±1 g	±3 g	±6 g
<b>Stabilization time **</b>	3 s	3 s	3 s
<b>Adjustment</b>	internal	internal	internal
<b>Verification</b>	—	—	—
<b>OIML class</b>	—	—	—
<b>Platform material</b>	AISI304 stainless steel	AISI304 stainless steel	AISI304 stainless steel
<b>Weighing pan material</b>	AISI304 stainless steel	AISI304 stainless steel	AISI304 stainless steel
<b>Ingress protection - platform</b>	IP 66/67	IP 66/67	IP 66/67
<b>RS 232</b>	1	1	1
<b>RS 485</b>	1	1	1
<b>Ethernet</b>	10 / 100 Mbit	10 / 100 Mbit	10 / 100 Mbit
<b>IN/OUT***</b>	2 × IN, 2 × OUT	2 × IN, 2 × OUT	2 × IN, 2 × OUT
<b>PROFIBUS module***</b>	DP SLAVE	DP SLAVE	DP SLAVE
<b>Power supply</b>	100 ÷ 240 V AC 50 ÷ 60 Hz	100 ÷ 240 V AC 50 ÷ 60 Hz	100 ÷ 240 V AC 50 ÷ 60 Hz
<b>Power consumption</b>	5 W	5 W	5 W
<b>Operating temperature</b>	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
<b>Relative humidity ****</b>	15 ÷ 80%	15 ÷ 80%	15 ÷ 80%
<b>Transport and storage temperature</b>	-10 ÷ +50 °C	-10 ÷ +50 °C	-10 ÷ +50 °C
<b>Weighing pan dimensions</b>	500 × 500 mm	800 × 600 mm	800 × 600 mm
<b>Net weight</b>	37 kg	71.5 kg	71.5 kg
<b>Gross weight</b>	47 kg	119 kg1	119 kg
<b>Platform packaging dimensions</b>	700 × 700 × 295 mm	1000 × 800 × 307 mm	1000 × 800 × 307 mm

\* repeatability is expressed as a standard deviation from 10 weighing cycles

\*\* under optimum ambient conditions

\*\*\* optional interfaces installed interchangeably (for optional configuration: RS232 + PROFIBUS or RS232 + Ethernet + RS485 + 2xIN + 2xOUT)

\*\*\*\* non-condensing conditions

	PL.300.1.HRP.H	PL.600.HRP.H	PL.1100.HRP.H
<b>Maximum capacity [Max]</b>	300 kg	600 kg	1100 kg
<b>Preload</b>	30 kg	60 kg	100 kg
<b>Minimum capacity</b>	100 g	250 g	500 g
<b>Readability [d]</b>	2 g	5 g	10 g
<b>Verification unit [e]</b>	—	—	—
<b>Tare range</b>	-300 kg	-600 kg	-1100 kg
<b>Repeatability *</b>	3 g	7.5 g	15 g
<b>Linearity</b>	±6 g	±15 g	±30g
<b>Stabilization time **</b>	3 s	3 s	3 s
<b>Adjustment</b>	internal	internal	internal
<b>Verification</b>	—	—	—
<b>OIML class</b>	—	—	—
<b>Platform material</b>	AISI304 stainless steel	AISI304 stainless steel	AISI304 stainless steel
<b>Weighing pan material</b>	AISI304 stainless steel	AISI304 stainless steel	AISI304 stainless steel
<b>Ingress protection - platform</b>	IP 66/67	IP 66/67	IP 66/67
<b>RS 232</b>	1	1	1
<b>RS 485</b>	1	1	1
<b>Ethernet</b>	10 / 100 Mbit	10 / 100 Mbit	10 / 100 Mbit
<b>IN/OUT***</b>	2 × IN, 2 × OUT	2 × IN, 2 × OUT	2 × IN, 2 × OUT
<b>PROFIBUS module***</b>	DP SLAVE	DP SLAVE	DP SLAVE
<b>Power supply</b>	100 ÷ 240 V AC 50 ÷ 60 Hz	100 ÷ 240 V AC 50 ÷ 60 Hz	100 ÷ 240 V AC 50 ÷ 60 Hz
<b>Power consumption</b>	5 W	5 W	5 W
<b>Operating temperature</b>	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
<b>Relative humidity ****</b>	15 ÷ 80%	15 ÷ 80%	15 ÷ 80%
<b>Transport and storage temperature</b>	-10 ÷ +50 °C	-10 ÷ +50 °C	-10 ÷ +50 °C
<b>Weighing pan dimensions</b>	1000 × 800 mm	1000 × 800 mm	1000 × 800 mm
<b>Net weight</b>	126 kg	126 kg	126 kg
<b>Gross weight</b>	160 kg	160 kg	160 kg
<b>Platform packaging dimensions</b>	1200 × 1000 × 328 mm	1200 × 1000 × 328 mm	1200 × 1000 × 328 mm

\* repeatability is expressed as a standard deviation from 10 weighing cycles

\*\* under optimum ambient conditions

\*\*\* optional interfaces installed interchangeably (for optional configuration: RS232 + PROFIBUS or RS232 + Ethernet + RS485 + 2xIN + 2xOUT)

\*\*\*\* non-condensing conditions

**PL.2000.HRP.H**

<b>Maximum capacity [Max]</b>	2000 kg
<b>Preload</b>	200 kg
<b>Minimum capacity</b>	200 g
<b>Readability [d]</b>	20 g
<b>Verification unit [e]</b>	—
<b>Tare range</b>	–2000 kg
<b>Repeatability *</b>	30 g
<b>Linearity</b>	±60g
<b>Stabilization time **</b>	3 s
<b>Adjustment</b>	internal
<b>Verification</b>	—
<b>OIML class</b>	—
<b>Platform material</b>	AISI304 stainless steel
<b>Weighing pan material</b>	AISI304 stainless steel
<b>Ingress protection - platform</b>	IP 66/67
<b>RS 232</b>	1
<b>RS 485</b>	1
<b>Ethernet</b>	10 / 100 Mbit
<b>IN/OUT***</b>	2 × IN, 2 × OUT
<b>PROFIBUS module***</b>	DP SLAVE
<b>Power supply</b>	100 ÷ 240 V AC 50 ÷ 60 Hz
<b>Power consumption</b>	5 W
<b>Operating temperature</b>	+10 ÷ +40 °C
<b>Relative humidity ****</b>	15 ÷ 80%
<b>Transport and storage temperature</b>	–10 ÷ +50 °C
<b>Weighing pan dimensions</b>	1250 × 1000 mm
<b>Net weight</b>	290 kg
<b>Gross weight</b>	415 kg
<b>Platform packaging dimensions</b>	1500 × 1250 × 615 mm

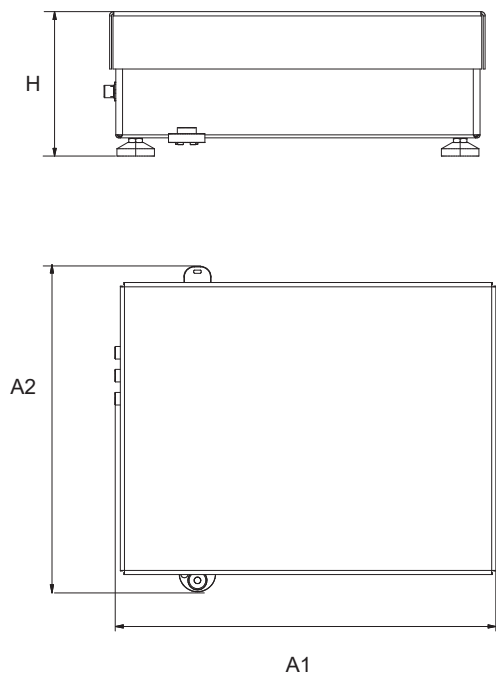
\* repeatability is expressed as a standard deviation from 10 weighing cycles

\*\* under optimum ambient conditions

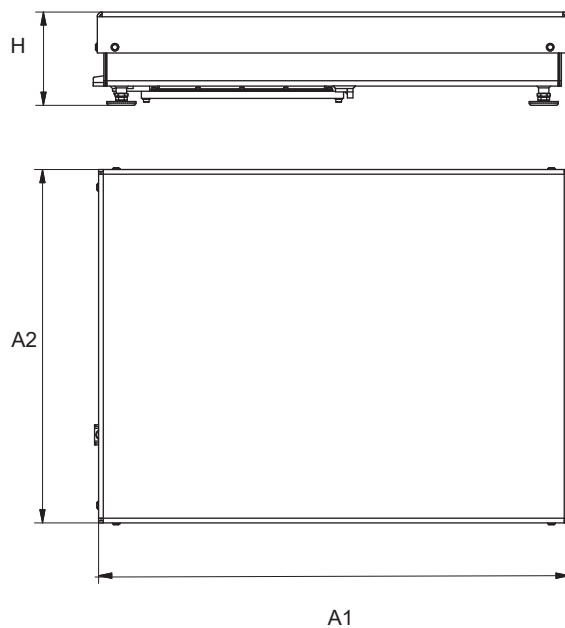
\*\*\* optional interfaces installed interchangeably (for optional configuration: RS232 + PROFIBUS or RS232 + Ethernet + RS485 + 2xIN + 2xOUT)

\*\*\*\* non-condensing conditions

## Dimensions



PL.16 - 32.HRP.H



PL.62-2000.HRP.H

Scale type	A1	A2	H
PL.16 -32.HRP.H	360	280	139±3
PL.62 -120.HRP.H	500	500	150±3
PL.150 - 300.HRP.H	800	600	175±3
PL.300.1 -1100.HRP.H	1000	800	175±3
PL.2000.HRP.H	1250	1000	175±3

## Accessories

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### Cables, Converters

- PT0347 – RS 232 cable (platform – terminal PUE HY10, PUE 5)
- PT0348 – RS 232 cable (platform – computer)
- P0198 – Ethernet cable (M12 4P)
- PT0302 – Ethernet cable with straight plug (platform - terminal PUE HY10, PUE 5)
- PT0303 – Ethernet cable with angle plug (platform - terminal PUE HY10, PUE 5)
- PT0256 – IN/OUT cable

### Compatible weighing terminals

- PUE HY10
- PUE 5.15 / PUE 5.19
- PUE 7.1

## Dedicated Software

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### MWMH-MANAGER

- option of adjustment of HRP platforms and MWSH, MWLH and MWMH modules,
- option of readout of mass from HRP platforms and modules using the computer,
- option of taring and zeroing HRP platforms and modules using the computer,
- option of setting weighing filters for HRP platforms and modules.

### RAD-KEY

- data acquired from a weighing instrument
- different ways of initializing the process of acquiring data from the weighing instrument and sending it to a computer
- readout of characters transmitted via RS 232 to a computer

### 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

### 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

### LabView Driver

- operation of RADWAG balances in LabViewR.Barcode environment
- presentation of information sent by a barcode scanner