

# Stainless Steel HX5.EX-1.4P2 H Beam Scale for Hazardous Areas

Precise weighing of pallets and large loads in gas and dust hazardous areas and in moist environments



## Features

conditions.

**Precise Weighing Indications in Challenging Industrial Conditions** Mass measurement carried out using 4 load cells guarantees weighing accuracy regardless positioning of the load on the platform. The scale ensures precise and fast mass measurement in challenging industrial

## Safety and Resistance to Ambient Conditions

Robust scale made of stainless steel enables carrying out weighing of large loads in moist environment and at direct contact with water. The scale ensures safety of operation in hazardous areas classified as zones 1, 2, 21 and 22.

## Special-Purpose Scale

Unique two-element construction for weighing pallets and other types of loads. Customization of beams arrangement enables weighing loads of various shapes and dimensions. Two optional beams (available at additional charge) allow to weight large-size loads.

#### **Cooperation with PUE HX5.EX Indicator**

The scale can be operated via advanced PUE HX5.EX indicator with a hermetic stainless steel housing. ATEX certificate guarantees safe operation of the indicator in hazardous areas.

## **Uncomplicated Operation and Clear Presentation of Indications**

5" colour screen ensures perfect readability, and intuitive information arrangement on the display guarantees uncomplicated and comfortable operation. Graphic user interface with the option of customization via widgets also adds to the comfort of operation.

#### **Certified Intrinsically Safe Power Supply**

The scale must be powered using exclusively a certified intrinsically safe power supply. Two versions of intrinsically safe power supply are offered, one for operation in hazardous area (PM01.EX-1 power supply), one in safe area (PM01.EX-2 power supply).

## **Cooperation with External Devices**

With use of IM01.EX communication module it is possible to expand communication interfaces range. The module facilitates cooperation with various accessories, e.g. barcode scanners, printers, controlling/ signalling devices.

#### **Ergonomics and Comfort of Operation**

Good quality handles enable comfortable transport of the scale.

# **Technical Specifications**

	HX5.EX-1.4P2.600.H	HX5.EX-1.4P2.1500.H	HX5.EX-1.4P2.3000.H	
Maximum capacity [Max]	600 kg	1500 kg	3000 kg	
Minimum capacity	4 kg	10 kg	20 kg	
Readability [d]	200 g	500 g	1000 g	
Verification unit [e]	200 g	500 g	1000 g	
Tare range	–600 kg	–1500 kg	–3000 kg	
Verification	Yes	Yes	Yes	
OIML class	III	III	III	
EX approval	ATEX : KDB 17ATEX0066X IECEX: IECEx OBAC 19.0001X	ATEX : KDB 17ATEX0066X IECEX: IECEx OBAC 19.0001X	ATEX : KDB 17ATEX0066X IECEX: IECEX OBAC 19.0001X	
EX marking	II 2G Ex ib IIB T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIB T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIB T4 Gb, II 2D Ex ib IIIC T135℃ Db	
Hazardous areas classification	zones 1, 2, 21 and 22	zones 1, 2, 21 and 22	zones 1, 2, 21 and 22	
Platform material	AISI304 stainless steel	AISI304 stainless steel	AISI304 stainless steel	
Weighing pan material	AISI304 stainless steel	AISI304 stainless steel	AISI304 stainless steel	
Indicator fastening	3 m cable	3 m cable	3 m cable	
Display	5" graphic display	5" graphic display	5″ graphic display	
Keyboard	membrane, 35 keys	membrane, 35 keys	membrane, 35 keys	
Indicator	PUE HX5.EX-1	PUE HX5.EX-1	PUE HX5.EX-1	
Ingress protection - platform	IP 65	IP 65	IP 65	
Ingress protection - indicator	IP 66/68	IP 66/68	IP 66/68	
RS 232	2	2	2	
RS 485	1	1	1	
Power supply**	230V AC	230V AC	230V AC	
Power consumption	15 W	15 W	15 W	
Operating temperature	-10 ÷ +40 ℃	-10 ÷ +40 ℃	-10 ÷ +40 ℃	
Relative humidity ***	10 ÷ 85%	10 ÷ 85%	10 ÷ 85%	
Transport and storage temperature	-10 ÷ +50 ℃	-10 ÷ +50 ℃	-10 ÷ +50 ℃	
Weighing pan dimensions	2 beams, 1.2 m long (distance between beams up to 5 m)	2 beams, 1.2 m long (distance between beams up to 5 m)	2 beams, 1.2 m long (distance between beams up to 5 m)	
Indicator dimensions	226 × 250 × 120 mm	226 × 250 × 120 mm	226 × 250 × 120 mm	
Net weight****	44 kg	44 kg	44 kg	
Gross weight****	59 kg	59 kg	59 kg	
Platform packaging dimensions	1400 × 400 × 458 mm	1400 × 400 × 458 mm	1400 × 400 × 458 mm	

\* option: dual range weighing instrument

The scale must be powered using dedicated PM01EX-1 power supply (intended for operation in hazardous area) or PM01EX-2 power supply (intended for operation in) non-condensing conditions \*\*

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\*\*\*\* mass given for the packaging containing both PUE HX5.EX indicator and PM01.EX power supply

	HX5.EX-1.4P2.2000.H1	HX5.EX-1.4P2.4000.H1	HX5.EX-1.4P2.6000.H1	
Maximum capacity [Max]	2000 kg	4000 kg	6000 kg	
Minimum capacity	20 kg	40 kg	40 kg	
Readability [d]	1000 g	2000 g	2000 g	
Verification unit [e]	1000 g	2000 g	2000 g	
Tare range	–2000 kg	–4000 kg	–6000 kg	
Verification	Yes	Yes	Yes	
OIML class	III	III	III	
EX approval	ATEX : KDB 17ATEX0066X IECEX: IECEx OBAC 19.0001X	ATEX : KDB 17ATEX0066X IECEX: IECEx OBAC 19.0001X	ATEX : KDB 17ATEX0066X IECEX: IECEx OBAC 19.0001X	
EX marking	II 2G Ex ib IIB T4 Gb, II 2D Ex ib IIIC T135℃ Db	II 2G Ex ib IIB T4 Gb, II 2D Ex ib IIIC T135℃ Db	II 2G Ex ib IIB T4 Gb, II 2D Ex ib IIIC T135℃ Db	
Hazardous areas classification	zones 1, 2, 21 and 22	zones 1, 2, 21 and 22	zones 1, 2, 21 and 22	
Platform material	AISI304 stainless steel	AISI304 stainless steel	AISI304 stainless steel	
Weighing pan material	AISI304 stainless steel	AISI304 stainless steel	AISI304 stainless steel	
Indicator fastening	3 m cable	3 m cable	3 m cable	
Display	5″ graphic display	5″ graphic display	5″ graphic display	
Keyboard	membrane, 35 keys	membrane, 35 keys	membrane, 35 keys	
Indicator	PUE HX5.EX-1	PUE HX5.EX-1	PUE HX5.EX-1	
Ingress protection - platform	IP 65	IP 65	IP 65	
Ingress protection - indicator	IP 66/68	IP 66/68	IP 66/68	
RS 232	2	2	2	
RS 485	1	1	1	
Power supply**	230V AC	230V AC	230V AC	
Power consumption	15 W	15 W	15 W	
Operating temperature	−10 ÷ +40 °C	−10 ÷ +40 °C	-10 ÷ +40 ℃	
Relative humidity ***	10 ÷ 85%	10 ÷ 85%	10 ÷ 85%	
Transport and storage temperature	−10 ÷ +50 °C	-10 ÷ +50 ℃	−10 ÷ +50 °C	
Weighing pan dimensions	2 beams, 2 m long (distance between beams up to 5 m)	2 beams, 2 m long (distance between beams up to 5 m)	2 beams, 2 m long (distance between beams up to 5 m)	
Indicator dimensions	226 × 250 × 120 mm	226 × 250 × 120 mm	226 × 250 × 120 mm	
Net weight****	66 kg	103 kg	103 kg	
Gross weight****	88 kg	126 kg	126 kg	
Platform packaging dimensions	2200 × 400 × 458 mm	2200 × 400 × 458 mm	2200 × 400 × 458 mm	

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option: dual range weighing instrument The scale must be powered using dedicated PM01EX-1 power supply (intended for operation in hazardous area) or PM01EX-2 power supply (intended for operation in) non-condensing conditions \*\*

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\*\*\*\* mass given for the packaging containing both PUE HX5.EX indicator and PM01.EX power supply

	HX5.EX-1.4P2.2000.H2	HX5.EX-1.4P2.4000.H2	HX5.EX-1.4P2.6000.H2	
Maximum capacity [Max]	2000 kg	4000 kg	6000 kg	
Minimum capacity	20 kg	40 kg	40 kg	
Readability [d]	1000 g	2000 g	2000 g	
Verification unit [e]	1000 g	2000 g	2000 g	
Tare range	–2000 kg	–4000 kg	–6000 kg	
Verification	Yes	Yes	Yes	
OIML class	III	III	III	
EX approval	ATEX : KDB 17ATEX0066X IECEX: IECEx OBAC 19.0001X	ATEX : KDB 17ATEX0066X IECEX: IECEx OBAC 19.0001X	ATEX : KDB 17ATEX0066X IECEX: IECEx OBAC 19.0001X	
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Hazardous areas classification	zones 1, 2, 21 and 22	zones 1, 2, 21 and 22	zones 1, 2, 21 and 22	
Platform material	AISI304 stainless steel	AISI304 stainless steel	AISI304 stainless steel	
Weighing pan material	AISI304 stainless steel	AISI304 stainless steel	AISI304 stainless steel	
Indicator fastening	3 m cable	3 m cable	3 m cable	
Display	5″ graphic display	5″ graphic display	5″ graphic display	
Keyboard	membrane, 35 keys	membrane, 35 keys	membrane, 35 keys	
Indicator	PUE HX5.EX-1	PUE HX5.EX-1	PUE HX5.EX-1	
Ingress protection - platform	IP 65	IP 65	IP 65	
Ingress protection - indicator	IP 66/68	IP 66/68	IP 66/68	
RS 232	2	2	2	
RS 485	1	1	1	
Power supply**	230V AC	230V AC	230V AC	
Power consumption	15 W	15 W	15 W	
Operating temperature	−10 ÷ +40 °C	−10 ÷ +40 °C	-10 ÷ +40 ℃	
Relative humidity ***	10 ÷ 85%	10 ÷ 85%	10 ÷ 85%	
Transport and storage temperature	−10 ÷ +50 °C	-10 ÷ +50 ℃	−10 ÷ +50 °C	
Weighing pan dimensions	2 beams, 2.5 m long (distance between beams up to 5 m)	2 beams, 2.5 m long (distance between beams up to 5 m)	2 beams, 2.5 m long (distance between beams up to 5 m)	
Indicator dimensions	226 × 250 × 120 mm	226 × 250 × 120 mm	226 × 250 × 120 mm	
Net weight****	78 kg	118 kg	146 kg	
Gross weight****	106 kg	146 kg	174 kg	
Platform packaging dimensions	2700 × 400 × 458 mm	2700 × 400 × 458 mm	2700 × 400 × 458 mm	

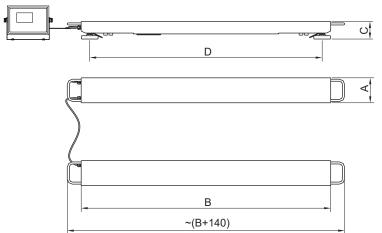
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option: dual range weighing instrument The scale must be powered using dedicated PM01EX-1 power supply (intended for operation in hazardous area) or PM01EX-2 power supply (intended for operation in) non-condensing conditions \*\*

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\*\*\*\* mass given for the packaging containing both PUE HX5.EX indicator and PM01.EX power supply

# Dimensions



Scale type	А	В	С	D
HX5.EX-1.4P2.600.H	120	1200	85	1100
HX5.EX-1.4P2.1500.H	120	1200	85	1100
HX5.EX-1.4P2.3000.H	120	1200	85	1100
HX5.EX-1.4P2.2000.H1	120	2000	105	1900
HX5.EX-1.4P2.2000.H2	120	2500	105	2400
HX5.EX-1.4P2.4000.H1	120	2000	155	1880
HX5.EX-1.4P2.4000.H2	120	2500	155	2380
HX5.EX-1.4P2.6000.H1	120	2000	155	1880
HX5.EX-1.4P2.6000.H2	120	2500	155	2380

dimensions in mm

**Remaining accessories** 

stands for indicators

# Accessories

## **Peripheral Devices**

• IM01EX-1 communication module

#### **Electrical Accessories**

- PM01.EX-1 power supply (for operation in hazardous area)
- PM01.EX-2 power supply (for operation in safe area)

# **Dedicated Software**

## R-LAB

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

#### **E2R Weighing Records**

- complete, automated databases synchronization
- fully supported processes of labelling and parts counting
- record of weighings, weighings archiving

## 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 operating system

## 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

#### LabView Driver

• operation of RADWAG balances in LabView environment