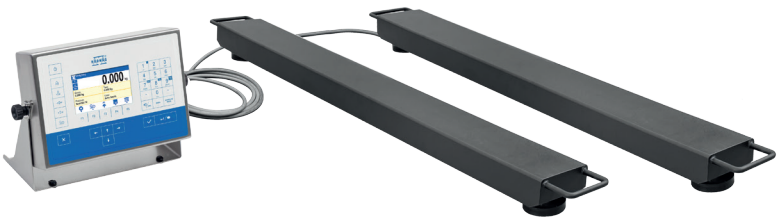
HX5.EX-1.4P2 Beam Scale for Hazardous Areas

Precise weighing of pallets and large loads in gas hazardous areas



HX5.EX-1.4P2

Intrinsically safe communication interfaces and hermetic connectors in stainless steel housing

ATEX approval

Transport-supporting handles

PUE HX5.EX-1 indicator with 5" colour graphic display

Functions

- Parts counting
- Percent weighing
- GLP procedures
- Labelling
- Replaceable units
- +/- control
- Statistics
- Alibi memory
- ATEX certificate
- Multilingual menu
- Dosing

Features

Precise Weighing Results in 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 industrial conditions.

Reliability and Safety

Robust scale made of powder-coated steel allows to weight large loads, ensuring durability and endurance in everyday use. The scale ensures safety of operation in hazardous areas classified as zones 1 and 2

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.C	HX5.EX-1.4P2.1500.C	HX5.EX-1.4P2.3000.C
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 2G Ex ib IIB T4 Gb	II 2G Ex ib IIB T4 Gb
Hazardous areas classification	zones 1 and 2	zones 1 and 2	zones 1 and 2
Platform material	St3S powder-coated steel	St3S powder-coated steel	St3S powder-coated steel
Weighing pan material	St3S powder-coated steel	St3S powder-coated steel	St3S powder-coated 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 °C
Relative humidity ***	10 ÷ 85%	10 ÷ 85%	10 ÷ 85%
Transport and storage temperature	–10 ÷ +50 °C	–10 ÷ +50 °C	–10 ÷ +50 °C
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******	41 kg	41 kg	41 kg
Gross weight******	56 kg	56 kg	56 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
**** mass given for the packaging containing both PUE HX5.EX indicator and PM01.EX power supply

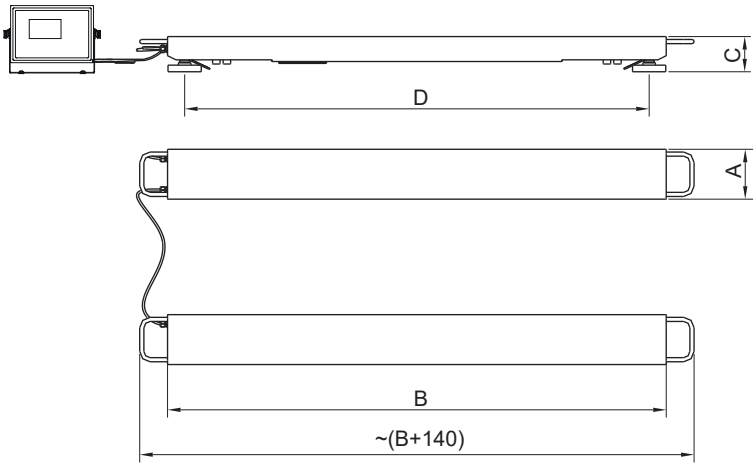
	HX5.EX-1.4P2.2000.C1	HX5.EX-1.4P2.4000.C1	HX5.EX-1.4P2.6000.C1
Maximum capacity [Max]	2000 kg	4000 kg	6000 kg
Minimum capacity	20 kg	40 kg	40 kg
Readability [d]	1000 g	2000 g	2000 g
Verification unit [e]	1000 g	2000 g	2000 g
Tare range	–2000 kg	–4000 kg	–6000 kg
Verification	Yes	Yes	Yes
OIML class	III	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 2G Ex ib IIB T4 Gb	II 2G Ex ib IIB T4 Gb
Hazardous areas classification	zones 1 and 2	zones 1 and 2	zones 1 and 2
Platform material	St3S powder-coated steel	St3S powder-coated steel	St3S powder-coated steel
Weighing pan material	St3S powder-coated steel	St3S powder-coated steel	St3S powder-coated 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 °C
Relative humidity ***	10 ÷ 85%	10 ÷ 85%	10 ÷ 85%
Transport and storage temperature	–10 ÷ +50 °C	–10 ÷ +50 °C	–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******	63 kg	101 kg	101 kg
Gross weight******	85 kg	123 kg	123 kg
Platform packaging dimensions	2200 × 400 × 458 mm	2200 × 400 × 458 mm	2200 × 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
**** mass given for the packaging containing both PUE HX5.EX indicator and PM01.EX power supply

	HX5.EX-1.4P2.2000.C2	HX5.EX-1.4P2.4000.C2	HX5.EX-1.4P2.6000.C2
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 2G Ex ib IIB T4 Gb	II 2G Ex ib IIB T4 Gb
Hazardous areas classification	zones 1 and 2	zones 1 and 2	zones 1 and 2
Platform material	St3S powder-coated steel	St3S powder-coated steel	St3S powder-coated steel
Weighing pan material	St3S powder-coated steel	St3S powder-coated steel	St3S powder-coated 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 °C
Relative humidity ***	10 ÷ 85%	10 ÷ 85%	10 ÷ 85%
Transport and storage temperature	–10 ÷ +50 °C	–10 ÷ +50 °C	–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******	75 kg	115 kg	143 kg
Gross weight******	103 kg	143kg	171 kg
Platform packaging dimensions	2700 × 400 × 458 mm	2700 × 400 × 458 mm	2700 × 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
**** mass given for the packaging containing both PUE HX5.EX indicator and PM01.EX power supply

Dimensions



Scale type	A	B	C	D
HX5.EX-1.4P2 600C	120	1200	85	1100
HX5.EX-1.4P2 1500C	120	1200	85	1100
HX5.EX-1.4P2 3000C	120	1200	85	1100
HX5.EX-1.4P2 2000C1	120	2000	105	1900
HX5.EX-1.4P2 2000C2	120	2500	105	2400
HX5.EX-1.4P2 4000C1	120	2000	155	1880
HX5.EX-1.4P2 4000C2	120	2500	155	2380
HX5.EX-1.4P2 6000C1	120	2000	155	1880
HX5.EX-1.4P2 6000C2	120	2500	155	2380

dimensions in mm

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)

Remaining accessories
- stands for indicators

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