

Stainless Steel HX5.EX-1.4 H

4 Load Cell Scale for Hazardous Areas



Accuracy of the weighing process of large and heavy loads
in gas and dust hazardous areas and in aggressive environment



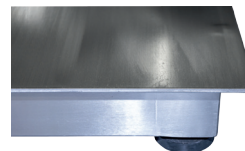
HX5.EX 1.4.H



Intrinsically safe communication
interfaces and hermetic
connectors in stainless steel
housing



ATEX approval



Stainless steel mechanical
design and weighing pan



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 Indications in Challenging Industrial Conditions

Mass measurement carried out using 4 load cells guarantees weighing accuracy regardless of the load on the platform. The scale ensures precise and fast mass measurement in challenging industrial conditions.

Safety and Resistance to Ambient Conditions

Robust platform made of powder-coated steel enables weighing large loads in moist environment and at a direct contact with water.

The scale ensures safety of operation in hazardous areas classified as zones 1, 2, 21 and 22.

Versatility of Use

Optional ramps enable easy loading and unloading of large loads transported onto the weighing platform using trolleys.

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.

Customizable Instrument

Numerous variants of weighing pan dimensions and broad range of maximum capacities enable selecting the best weighing instrument suiting specific requirements and needs.

Cooperation with PUE HX5.EX Indicator

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

Technical Specifications

	HX5.EX-1.4.60.H6	HX5.EX-1.4.150.H6*	HX5.EX-1.4.300.H6*
Maximum capacity [Max]	60 kg	150 kg	300 kg
Minimum capacity	0.4 kg	1 kg	2 kg
Readability [d]	20 g	50 g	100 g
Max readability for non-verified scale	20 g	20 g	20 g
Verification unit [e]	20 g	50 g	100 g
Tare range	−60 kg	−150 kg	−300 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 IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C 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 67	IP 68	IP 68
Ingress protection - indicator	IP 66/68	IP 66/68	IP 66/68
RS 232	2	2	2
RS 485	1	1	1
Communication protocol	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP
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	800 × 800 mm	800 × 800 mm	800 × 800 mm
Indicator dimensions	329 × 231 × 120 mm	329 × 231 × 120 mm	329 × 231 × 120 mm
Net weight****	65 kg	65 kg	65 kg
Gross weight****	85 kg	85 kg	85 kg
Platform packaging dimensions	900 × 900 × 438 mm	900 × 900 × 438 mm	900 × 900 × 438 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

Technical Specifications

	HX5.EX-1.4.600.H6*	HX5.EX-1.4.150.H7	HX5.EX-1.4.300.H7*
Maximum capacity [Max]	600 kg	150 kg	300 kg
Minimum capacity	4 kg	1 kg	2 kg
Readability [d]	200 g	50 g	100 g
Max readability for non-verified scale	50 g	20 g	20 g
Verification unit [e]	200 g	50 g	100 g
Tare range	−600 kg	−150 kg	−300 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 IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C 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 68	IP 68	IP 68
Ingress protection - indicator	IP 66/68	IP 66/68	IP 66/68
RS 232	2	2	2
RS 485	1	1	1
Communication protocol	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP
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	800 × 800 mm	1000 × 1000 mm	1000 × 1000 mm
Indicator dimensions	329 × 231 × 120 mm	329 × 231 × 120 mm	329 × 231 × 120 mm
Net weight****	65 kg	90 kg	90 kg
Gross weight****	85 kg	115 kg	115 kg
Platform packaging dimensions	900 × 900 × 438 mm	1100 × 1100 × 438 mm	1100 × 1100 × 438 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

Technical Specifications

	HX5.EX-1.4.600.H7*	HX5.EX-1.4.1500.H7*	HX5.EX-1.4.300.H8
Maximum capacity [Max]	600 kg	1500 kg	300 kg
Minimum capacity	4 kg	10 kg	2 kg
Readability [d]	200 g	500 g	100 g
Max readability for non-verified scale	50 g	100 g	20 g
Verification unit [e]	200 g	500 g	100 g
Tare range	−600 kg	−1500 kg	−300 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 IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C 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 68	IP 68	IP 68
Ingress protection - indicator	IP 66/68	IP 66/68	IP 66/68
RS 232	2	2	2
RS 485	1	1	1
Communication protocol	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP
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	1000 × 1000 mm	1000 × 1000 mm	1200 × 1200 mm
Indicator dimensions	329 × 231 × 120 mm	329 × 231 × 120 mm	329 × 231 × 120 mm
Net weight****	90 kg	100 kg	130 kg
Gross weight****	115 kg	125 kg	165 kg
Platform packaging dimensions	1100 × 1100 × 438 mm	1100 × 1100 × 438 mm	1300 × 1300 × 438 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

Technical Specifications

	HX5.EX-1.4.600.H8*	HX5.EX-1.4.1500.H8*	HX5.EX-1.4.3000.H8*
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
Max readability for non-verified scale	50 g	100 g	200 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 IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C 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 68	IP 68	IP 68
Ingress protection - indicator	IP 66/68	IP 66/68	IP 66/68
RS 232	2	2	2
RS 485	1	1	1
Communication protocol	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP
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	1200 × 1200 mm	1200 × 1200 mm	1200 × 1200 mm
Indicator dimensions	329 × 231 × 120 mm	329 × 231 × 120 mm	329 × 231 × 120 mm
Net weight****	130 kg	130 kg	135 kg
Gross weight****	165 kg	165 kg	170 kg
Platform packaging dimensions	1300 × 1300 × 438 mm	1300 × 1300 × 438 mm	1300 × 1300 × 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

Technical Specifications

	HX5.EX-1.4.300.H8/9	HX5.EX-1.4.600.H8/9*	HX5.EX-1.4.1500.H8/9*
Maximum capacity [Max]	300 kg	600 kg	1500 kg
Minimum capacity	2 kg	4 kg	10 kg
Readability [d]	100 g	200 g	500 g
Max readability for non-verified scale	20 g	50 g	100 g
Verification unit [e]	100 g	200 g	500 g
Tare range	−300 kg	−600 kg	−1500 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 IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C 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 68	IP 68	IP 68
Ingress protection - indicator	IP 66/68	IP 66/68	IP 66/68
RS 232	2	2	2
RS 485	1	1	1
Communication protocol	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP
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	1200 × 1500 mm	1200 × 1500 mm	1200 × 1500 mm
Indicator dimensions	329 × 231 × 120 mm	329 × 231 × 120 mm	329 × 231 × 120 mm
Net weight****	160 kg	160 kg	160 kg
Gross weight****	195 kg	195 kg	195 kg
Platform packaging dimensions	1600 × 1300 × 438 mm	1600 × 1300 × 438 mm	1600 × 1300 × 438 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

Technical Specifications

	HX5.EX-1.4.3000.H8/9	HX5.EX-1.4.300.H9	HX5.EX-1.4.600.H9*
Maximum capacity [Max]	3000 kg	300 kg	600 kg
Minimum capacity	20 kg	2 kg	4 kg
Readability [d]	1000 g	100 g	200 g
Max readability for non-verified scale	200 g	50 g	50 g
Verification unit [e]	1000 g	100 g	200 g
Tare range	−3000 kg	−300 kg	−600 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 IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C 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 68	IP 68	IP 68
Ingress protection - indicator	IP 66/68	IP 66/68	IP 66/68
RS 232	2	2	2
RS 485	1	1	1
Communication protocol	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP
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	1200 × 1500 mm	1500 × 1500 mm	1500 × 1500 mm
Indicator dimensions	329 × 231 × 120 mm	329 × 231 × 120 mm	329 × 231 × 120 mm
Net weight****	165 kg	200 kg	200 kg
Gross weight****	200 kg	235 kg	235 kg
Platform packaging dimensions	1600 × 1300 × 458 mm	1600 × 1600 × 438 mm	1600 × 1600 × 438 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

Technical Specifications

	HX5.EX-1.4.1500.H9*	HX5.EX-1.4.3000.H9*	HX5.EX-1.4.6000.H9*
Maximum capacity [Max]	1500 kg	3000 kg	6000 kg
Minimum capacity	10 kg	20 kg	40 kg
Readability [d]	500 g	1000 g	2000 g
Max readability for non-verified scale	100 g	200 g	500 g
Verification unit [e]	500 g	1000 g	2000 g
Tare range	–1500 kg	–3000 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 IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C 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 68	IP 68	IP 68
Ingress protection - indicator	IP 66/68	IP 66/68	IP 66/68
RS 232	2	2	2
RS 485	1	1	1
Communication protocol	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP
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	1500 × 1500 mm	1500 × 1500 mm	1500 × 1500 mm
Indicator dimensions	329 × 231 × 120 mm	329 × 231 × 120 mm	329 × 231 × 120 mm
Net weight****	200 kg	205 kg	205 kg
Gross weight****	235 kg	245 kg	245 kg
Platform packaging dimensions	1600 × 1600 × 438 mm	1600 × 1600 × 458 mm	1600 × 1600 × 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

Technical Specifications

	HX5.EX-1.4.600.H10	HX5.EX-1.4.1500.H10*	HX5.EX-1.4.3000.H10 *
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
Max readability for non-verified scale	50 g	100 g	200 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 IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C Db	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C 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 68	IP 68	IP 68
Ingress protection - indicator	IP 66/68	IP 66/68	IP 66/68
RS 232	2	2	2
RS 485	1	1	1
Communication protocol	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP
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	1500 × 2000 mm	1500 × 2000 mm	1500 × 2000 mm
Indicator dimensions	329 × 231 × 120 mm	329 × 231 × 120 mm	329 × 231 × 120 mm
Net weight****	290 kg	290 kg	290 kg
Gross weight****	335 kg	335 kg	335 kg
Platform packaging dimensions	2100 × 1600 × 458 mm	2100 × 1600 × 458 mm	2100 × 1600 × 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

Technical Specifications

	HX5.EX-1.4.6000.H10
Maximum capacity [Max]	6000 kg
Minimum capacity	40 kg
Readability [d]	2000 g
Max readability for non-verified scale	500 g
Verification unit [e]	2000 g
Tare range	−6000 kg
Verification	Yes
OIML class	III
EX approval	ATEX : KDB 17ATEX0066X IECEX: IECEX OBAC 19.0001X
EX marking	II 2G Ex ib IIC T4 Gb, II 2D Ex ib IIIC T135°C Db
Hazardous areas classification	zones 1, 2, 21 and 22
Platform material	AISI304 stainless steel
Weighing pan material	AISI304 stainless steel
Indicator fastening	3 m cable
Display	5" graphic display
Keyboard	membrane, 35 keys
Indicator	PUE HX5.EX-1
Ingress protection - platform	IP 68
Ingress protection - indicator	IP 66/68
RS 232	2
RS 485	1
Communication protocol	ASCII Text / Modbus RTU / TCP
Power supply**	230V AC
Power consumption	15 W
Operating temperature	−10 ÷ +40 °C
Relative humidity ***	10 ÷ 85%
Transport and storage temperature	−10 ÷ +50 °C
Weighing pan dimensions	1500 × 2000 mm
Indicator dimensions	329 × 231 × 120 mm
Net weight****	355 kg
Gross weight****	405 kg
Platform packaging dimensions	2100 × 1600 × 508 mm

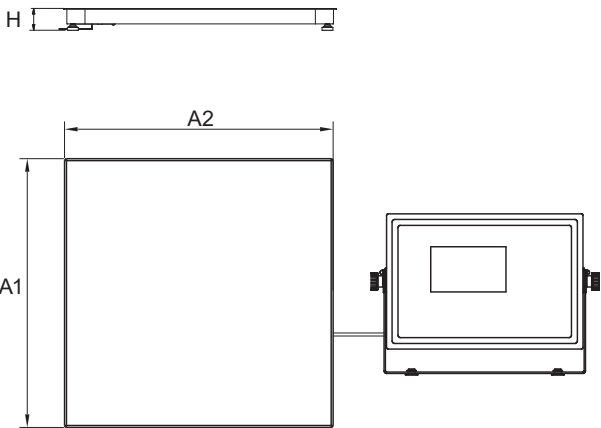
* option: dual range weighing instrument

** 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

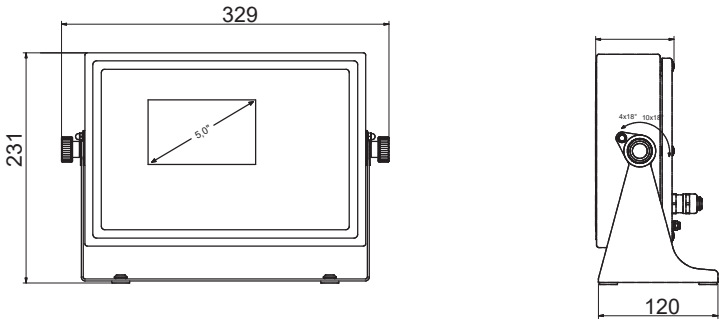
**** mass given for the packaging containing both PUE HX5.EX indicator and PM01.EX power supply

Dimensions



Scale type	A1	A2	H
HX5.EX-1 H6	800	800	88±2
HX5.EX-1 H7	1000	1000	88±2
HX5.EX-1 H8	1200	1200	88±2
HX5.EX-1 H8*	1200	1200	111±2
HX5.EX-1 H 8/9	1200	1500	88±2
HX5.EX-1 H8/9*	1200	1500	111±2
HX5.EX-1 H9	1500	1500	88±2
HX5.EX-1 H9*	1500	1500	111±2
HX5.EX-1 H10	1500	2000	111±2
HX5.EX-1 H10**	1500	2000	166±2

dimensions in mm
* Max ≥ 3000
** Max ≥ 6000



PUE HX5.EX-1

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