# Stainless Steel HX5.EX-1 H
# Platform Scale for Hazardous Areas

Speed and accuracy of the weighing process and safety
of the operation in gas hazardous areas and in moist environment

HX5.EX.H-1.H

Intrinsically safe communication interfaces and hermetic connectors in stainless steel housing


ATEX approval

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**
HX5.EX-1 platform scale enables fast and precise mass measurements in challenging industrial conditions.

**Safety and Resistance to Ambient Conditions**
Robust design made of stainless steel, intended for versatile weighing processes, ensures safety of operation in hazardous areas classified as zones 1 and 2. The scale can be operated in moist environment and at direct contact with water.

**Versatility of Use**
HX5.EX-1 scale can be applied in various industry areas, apart from standard weighing processes it allows to carry out parts counting, checkweighing, labelling, dosing and statistics operations. This enables applying the scale in various industries.

**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.

# Technical Specifications

| | HX5.EX-1.1.5.H1 | HX5.EX-1.3.H1* | HX5.EX-1.6.H1* |
|---|---|---|---|
| **Maximum capacity [Max]** | 1.5 kg | 3 kg | 6 kg |
| **Minimum capacity** | 10 g | 20 g | 40 g |
| **Readability [d]** | 0.5 g | 1 g | 2 g |
| **Max readability for non-verified scale** | 0.2 g | 0.2 g | 0.2 g |
| **Verification unit [e]** | 0.5 g | 1 g | 2 g |
| **Tare range** | –1.5 kg | –3 kg | –6 kg |
| **Verification** | Yes | Yes | Yes |
| **OIML class** | III | III | III |
| **EX approval** | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>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** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Weighing pan material** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Indicator fastening** | 1.5 m cable | 1.5 m cable | 1.5 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 |
| **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** | 200 × 150 mm | 200 × 150 mm | 200 × 150 mm |
| **Indicator dimensions** | 329 × 231 × 120 mm | 329 × 231 × 120 mm | 329 × 231 × 120 mm |
| **Net weight****** | 10.9 kg | 10.9 kg | 10.9 kg |
| **Gross weight****** | 11.9 kg | 11.9 kg | 11.9 kg |
| **Platform packaging dimensions** | 520 × 260 × 290 mm | 520 × 260 × 290 mm | 520 × 260 × 290 mm |
| **Indicator packaging dimensions** | 630 × 310 × 210 mm | 630 × 310 × 210 mm | 630 × 310 × 210 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-1.15.H1* | HX5.EX-1.3.H2 | HX5.EX-1.6.H2* |
|---|---|---|---|
| **Maximum capacity [Max]** | 15 kg | 3 kg | 6 kg |
| **Minimum capacity** | 100 g | 20 g | 40 g |
| **Readability [d]** | 5 g | 1 g | 2 g |
| **Max readability for non-verified scale** | 0.5 g | 0.2 g | 0.2 g |
| **Verification unit [e]** | 5 g | 10 g | 2 g |
| **Tare range** | –15 kg | –30 kg | –6 kg |
| **Verification** | Yes | Yes | Yes |
| **OIML class** | III | III | III |
| **EX approval** | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>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** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Weighing pan material** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Indicator fastening** | 1.5 m cable | 1.5 m cable | 1.5 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 |
| **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** | 200 × 150 mm | 250 × 300 mm | 250 × 300 mm |
| **Indicator dimensions** | 329 × 231 × 120 mm | 329 × 231 × 120 mm | 329 × 231 × 120 mm |
| **Net weight****** | 10.9 kg | 13.3 kg | 13.3 kg |
| **Gross weight****** | 11.9 kg | 15.2 kg | 15.2 kg |
| **Platform packaging dimensions** | 520 × 260 × 290 mm | 580 × 320 × 360 mm | 580 × 320 × 360 mm |
| **Indicator packaging dimensions** | 630 × 310 × 210 mm | 630 × 310 × 210 mm | 630 × 310 × 210 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-1.15.H2* | HX5.EX-1.30.H2* | HX5.EX-1.6.H3 |
|---|---|---|---|
| **Maximum capacity [Max]** | 15 kg | 30 kg | 6 kg |
| **Minimum capacity** | 100 g | 200 g | 40 kg |
| **Readability [d]** | 5 g | 10 g | 2 g |
| **Max readability for non-verified scale** | 0.5 g | 1 g | 0.2 g |
| **Verification unit [e]** | 5 g | 10 g | 2 g |
| **Tare range** | –15 kg | –30 kg | –6 kg |
| **Verification** | Yes | Yes | Yes |
| **OIML class** | III | III | III |
| **EX approval** | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>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** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Weighing pan material** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Indicator fastening** | 1.5 m cable | 1.5 m cable | 2.5 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 |
| **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** | 250 × 300 mm | 250 × 300 mm | 410 × 410 mm |
| **Indicator dimensions** | 329 × 231 × 120 mm | 329 × 231 × 120 mm | 329 × 231 × 120 mm |
| **Net weight****** | 13.3 kg | 13.3 kg | 15.3 kg |
| **Gross weight****** | 15.2 kg | 15.2 kg | 18.2 kg |
| **Platform packaging dimensions** | 580 × 320 × 360 mm | 580 × 320 × 360 mm | 670 × 510 × 330 mm |
| **Indicator packaging dimensions** | 670 × 510 × 330 mm | 670 × 510 × 330 mm | 670 × 510 × 330 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-1.15.H3* | HX5.EX-1.30.H3* | HX5.EX-1.60.H3* |
|---|---|---|---|
| **Maximum capacity [Max]** | 15 kg | 30 kg | 60 kg |
| **Minimum capacity** | 100 g | 200 g | 400 g |
| **Readability [d]** | 5 g | 10 g | 20 g |
| **Max readability for non-verified scale** | 0.5 g | 1 g | 2 g |
| **Verification unit [e]** | 5 g | 10 g | 20 g |
| **Tare range** | –15 kg | –30 kg | –60 kg |
| **Verification** | Yes | Yes | Yes |
| **OIML class** | III | III | III |
| **EX approval** | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>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** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Weighing pan material** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Indicator fastening** | 2.5 m cable | 2.5 m cable | 2.5 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 |
| **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** | 410 × 410 mm | 410 × 410 mm | 410 × 410 mm |
| **Indicator dimensions** | 329 × 231 × 120 mm | 329 × 231 × 120 mm | 329 × 231 × 120 mm |
| **Net weight****** | 15.3 kg | 15.3 kg | 15.3 kg |
| **Gross weight****** | 18.2 kg | 18.2 kg | 18.2 kg |
| **Platform packaging dimensions** | 670 × 510 × 330 mm | 670 × 510 × 330 mm | 670 × 510 × 330 mm |
| **Indicator packaging dimensions** | 670 × 510 × 330 mm | 670 × 510 × 330 mm | 670 × 510 × 330 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-1.150.H3* | HX5.EX-1.15.H4 | HX5.EX-1.30.H4* |
|---|---|---|---|
| **Maximum capacity [Max]** | 150 kg | 15 kg | 30 kg |
| **Minimum capacity** | 1000 g | 100 g | 200 kg |
| **Readability [d]** | 50 g | 5 g | 10 g |
| **Max readability for non-verified scale** | 5 g | 0.5 g | 1 g |
| **Verification unit [e]** | 50 g | 5 g | 10 g |
| **Tare range** | –150 kg | –15 kg | –30 kg |
| **Verification** | Yes | Yes | Yes |
| **OIML class** | III | III | III |
| **EX approval** | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>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** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Weighing pan material** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Indicator fastening** | 2.5 m cable | 2.5 m cable | 2.5 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 |
| **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** | 410 × 410 mm | 500 × 500 mm | 500 × 500 mm |
| **Indicator dimensions** | 329 × 231 × 120 mm | 329 × 231 × 120 mm | 329 × 231 × 120 mm |
| **Net weight****** | 15.3 kg | 24.4 kg | 24.4 kg |
| **Gross weight****** | 18.2 kg | 27.1 kg | 27.1 kg |
| **Platform packaging dimensions** | 670 × 510 × 330 mm | 840 × 600 × 400 mm | 840 × 600 × 400 mm |
| **Indicator packaging dimensions** | 670 × 510 × 330 mm | 630 × 310 × 210 mm | 630 × 310 × 210 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-1.60.H4* | HX5.EX-1.150.H4* | HX5.EX-1.15.H3/5 |
|---|---|---|---|
| **Maximum capacity [Max]** | 60 kg | 150 kg | 15 kg |
| **Minimum capacity** | 400 g | 1000 g | 100 g |
| **Readability [d]** | 20 g | 50 g | 5 g |
| **Max readability for non-verified scale** | 2 g | 5 g | 0.5 g |
| **Verification unit [e]** | 20 g | 50 g | 5 g |
| **Tare range** | –60 kg | –150 kg | –15 kg |
| **Verification** | Yes | Yes | Yes |
| **OIML class** | III | III | III |
| **EX approval** | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>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** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Weighing pan material** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Indicator fastening** | 2.5 m cable | 2.5 m cable | 2.5 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 |
| **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** | 500 × 500 mm | 500 × 500 mm | 400 × 600 mm |
| **Indicator dimensions** | 329 × 231 × 120 mm | 329 × 231 × 120 mm | 329 × 231 × 120 mm |
| **Net weight****** | 24.4 kg | 24.4 kg | 25.1 kg |
| **Gross weight****** | 27.1 kg | 27.1 kg | 28.8 kg |
| **Platform packaging dimensions** | 840 × 600 × 400 mm | 840 × 600 × 400 mm | 670 × 510 × 330 mm |
| **Indicator packaging dimensions** | 630 × 310 × 210 mm | 630 × 310 × 210 mm | 630 × 310 × 210 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-1.30.H3/5* | HX5.EX-1.60.H3/5* | HX5.EX-1.150.H3/5* |
|---|---|---|---|
| **Maximum capacity [Max]** | 30 kg | 60 kg | 150 kg |
| **Minimum capacity** | 200 g | 400 g | 1000 g |
| **Readability [d]** | 10 g | 20 g | 50 g |
| **Max readability for non-verified scale** | 1 g | 2 g | 5 g |
| **Verification unit [e]** | 10 g | 20 g | 50 g |
| **Tare range** | –30 kg | –60 kg | –150 kg |
| **Verification** | Yes | Yes | Yes |
| **OIML class** | III | III | III |
| **EX approval** | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>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** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Weighing pan material** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Indicator fastening** | 2.5 m cable | 2.5 m cable | 2.5 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 |
| **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** | 400 × 600 mm | 400 × 600 mm | 400 × 600 mm |
| **Indicator dimensions** | 329 × 231 × 120 mm | 329 × 231 × 120 mm | 329 × 231 × 120 mm |
| **Net weight****** | 25.1 kg | 25.1 kg | 25.1 kg |
| **Gross weight****** | 28.8 kg | 28,8 kg | 28.8 kg |
| **Platform packaging dimensions** | 670 × 510 × 330 mm | 670 × 510 × 330 mm | 670 × 510 × 330 mm |
| **Indicator packaging dimensions** | 630 × 310 × 210 mm | 630 × 310 × 210 mm | 630 × 310 × 210 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-1.15.H5 | HX5.EX-1.30.H5* | HX5.EX-1.60.H5* |
|---|---|---|---|
| **Maximum capacity [Max]** | 15 kg | 30 kg | 60 kg |
| **Minimum capacity** | 100 g | 200 g | 400 g |
| **Readability [d]** | 5 g | 10 g | 20 g |
| **Max readability for non-verified scale** | 0.5 g | 1 g | 2 g |
| **Verification unit [e]** | 5 g | 10 g | 20 g |
| **Tare range** | –15 kg | –30 kg | –60 kg |
| **Verification** | Yes | Yes | Yes |
| **OIML class** | III | III | III |
| **EX approval** | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>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** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Weighing pan material** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Indicator fastening** | 2.5 m cable | 2.5 m cable | 2.5 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 |
| **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** | 600 × 600 mm | 600 × 600 mm | 600 × 600 mm |
| **Indicator dimensions** | 329 × 231 × 120 mm | 329 × 231 × 120 mm | 329 × 231 × 120 mm |
| **Net weight******** | 26.5 kg | 26.5 kg | 26.5 kg |
| **Gross weight******** | 30.7 kg | 30.7 kg | 30.7 kg |
| **Platform packaging dimensions** | 840 × 700 × 400 mm | 840 × 700 × 400 mm | 840 × 700 × 400 mm |
| **Indicator packaging dimensions** | 630 × 310 × 210 mm | 630 × 310 × 210 mm | 630 × 310 × 210 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

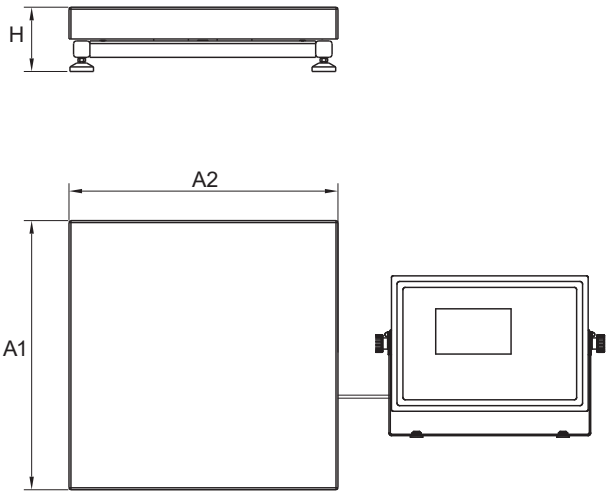
| | HX5.EX-1.150.H5* | HX5.EX-1.60.H6 | HX5.EX-1.150.H6* |
|---|---|---|---|
| **Maximum capacity [Max]** | 150 kg | 60 kg | 150 kg |
| **Minimum capacity** | 1000 g | 400 kg | 1000 g |
| **Readability [d]** | 50 g | 20 g | 50 g |
| **Max readability for non-verified scale** | 5 g | 20 g | 20 g |
| **Verification unit [e]** | 50 g | 20 g | 50 g |
| **Tare range** | –150 kg | –60 kg | –150 kg |
| **Verification** | Yes | Yes | Yes |
| **OIML class** | III | III | III |
| **EX approval** | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X | ATEX : KDB 17ATEX0066X<br>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** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Weighing pan material** | AISI304 stainless steel | AISI304 stainless steel | AISI304 stainless steel |
| **Indicator fastening** | 2.5 m cable | 2.5 m cable | 2.5 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 |
| **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** | 600 × 600 mm | 800 × 800 mm | 800 × 800 mm |
| **Indicator dimensions** | 329 × 231 × 120 mm | 329 × 231 × 120 mm | 329 × 231 × 120 mm |
| **Net weight****** | 26.5 kg | 47.5 kg | 47.5 kg |
| **Gross weight****** | 30.7 kg | 50.4 kg | 50.4 kg |
| **Platform packaging dimensions** | 840 × 700 × 400 mm | 1160 × 820 × 340 mm | 1160 × 820 × 340 mm |
| **Indicator packaging dimensions** | 630 × 310 × 210 mm | 630 × 310 × 210 mm | 630 × 310 × 210 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-1.300.H6* |
|---|---|
| **Maximum capacity [Max]** | 300 kg |
| **Minimum capacity** | 2000 g |
| **Readability [d]** | 100 g |
| **Max readability for non-verified scale** | 10 g |
| **Verification unit [e]** | 100 g |
| **Tare range** | –300 kg |
| **Verification** | Yes |
| **OIML class** | III |
| **EX approval** | ATEX : KDB 17ATEX0066X<br>IECEX: IECEx OBAC 19.0001X |
| **EX marking** | II 2G Ex ib IIB T4 Gb |
| **Hazardous areas classification** | zones 1 and 2 |
| **Platform material** | AISI304 stainless steel |
| **Weighing pan material** | AISI304 stainless steel |
| **Indicator fastening** | 2.5 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 |
| **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** | 800 × 800 mm |
| **Indicator dimensions** | 329 × 231 × 120 mm |
| **Net weight****** | 47.5 kg |
| **Gross weight****** | 50.4 kg |
| **Platform packaging dimensions** | 1160 × 820 × 340 mm |
| **Indicator packaging dimensions** | 630 × 310 × 210 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



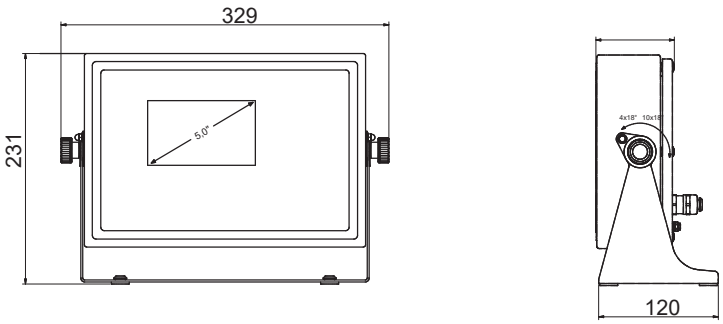

Platform H

| 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