

# Stainless Steel HX7.4P2.H Beam Scale

Precise weighing of large loads and pallets carried out in moist environment and at direct contact with water



## Features

#### Precise weighing results in industrial conditions

Advanced HX7 multifunctional scale enables fast and precise mass measurements in challenging industrial conditions.

#### **Reliability and safety**

Robust stainless steel construction and high ingress protection allow to operate the scale in moist environment and at direct contact with water.

#### Versatility of use

HX7 scale can be applied in various industry areas, apart from standard weighing processes it allows to carry out parts counting, dosing, formulations.

#### Compatibility with PUE HX7 indicator

The scale can be operated via advanced PUE HX5.EX terminal with a hermetic stainless steel housing. The terminal features 7" colour graphic LCD and a membrane keyboard.

#### **Communication Interfaces**

The terminal is equipped with RS 322, RS 485, USB, Ethernet, digital inputs/ outputs and analog output. This enables cooperation with external devices: barcode scanners, printers, external displays, control buttons, light signalling towers, other controlling/signalling devices, systems for automatic process control and superior IT systems. It is possible due to the implemented complex character-based communication protocol.

#### Diodes

Diode bar graph YESes top part of the operation panel, it consists of 9 red and green diode fields. Bar graph is a graphic visualisation informing on current net weight of a product in comparison with the scale range. The terminal features 3 working modes:,linear',,weighing thresholds signalling' and,checkweighing'. The bar graph significantly increases the comfort of terminal operation during piecework in food industry when fast and unambiguous presentation of product mass deviation in comparison with the declared min and max values is crucial.

#### **Multifunctional Software**

Terminal software allows carrying out processes such as weighing, parts counting, dosing, and percent weighing.

Terminal's system of information is based on databases (such as: users, products, weighings, packaging, formulations, customers) and ALIBI memory which guarantees stored data safety. When creating the software a great emphasis was placed on its functionality and ergonomics. This resulted in increased comfort of terminal operation.

## **Technical Specifications**

	HX7.4P2.600.H	HX7.4P2.1500.H	HX7.4P2.3000.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	
Max readability for non-verified scale	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	
Max number of platforms	2	2	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	cable (K) 3 meters	cable (K) 3 meters	cable (K) 3 meters	
Display	7″ graphic display	7" graphic display	7" graphic display	
Keyboard	membrane, 22-key	membrane, 22-key	membrane, 22-key	
Indicator type	PUE HX7	PUE HX7	PUE HX7	
Ingress protection - platform	IP 68	IP 68	IP 68	
Ingress protection - indicator	IP 66/68	IP 66/68	IP 66/68	
RS232	1	1	1	
USB	1	1	1	
Ethernet	1	1	1	
IN / OUT	$4 \times IN / 4 \times OUT$	$4 \times IN / 4 \times OUT$	$4 \times IN / 4 \times OUT$	
RS232 **	2	2	2	
RS485 **	1	1	1	
USB **	1	1	1	
IN / OUT **	$12 \times IN / 12 \times OUT$	12 × IN / 12 × OUT	12 × IN / 12 × OUT	
AN module **	1× 4-20mA, 0-10V	1× 4-20mA, 0-10V	1× 4-20mA, 0-10V	
Communication protocol	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP	
Power supply	100 ÷ 240 V AC 50 ÷ 60 Hz	100 ÷ 240 V AC 50 ÷ 60 Hz	100 ÷ 240 V AC 50 ÷ 60 Hz	
Optional power supply **	12-24 V DC	12-24 V DC	12-24 V DC	
Max Power consumption	25 W	25 W	25 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 °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)	
Net weight ****	39,7 kg	39,7 kg	39,7 kg	
Gross weight ****	59,5 kg	59,5 kg	59,5 kg	
Packaging dimensions	140 × 40 × 67 cm	140 × 40 × 67 cm	140 × 40 × 67 cm	

possibility to make the device a dual range weighing model optional design \*

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\*\*\* non-condensing conditions

\*\*\*\* mass of the packaging containing the PUE HX7 indicator and the platform

## **Technical Specifications**

Minimum capacity20 kg40 kg40 kgReadability (d)1000 g2000 g2000 gMax readability for non-verify1000 g2000 g2000 gVerifaction unit (e)1000 g2000 g2000 gTare range-2000 kg4000 kg2000 gVerifaction unit (e)1000 g2000 g2000 gVerifaction unit (e)1000 kgVesVesOML classIIIIIIIIMax muber of platforms2222Platform materialAl5104 stainless steelAl5104 stainless steelAl5104 stainless steelWeighing pan materialAl5104 stainless steelAl5104 stainless steelAl5104 stainless steelNation fasteningCable (3) a metersCable (0) a metersCable (0) a metersDisplay7 graphic display7 graphic display7 graphic displayMeyboardmembrane, 22-kgmembrane, 22-kgmembrane, 22-kgIndicator typePLE hX7PLE hX7PLE hX7Ingress protection - platformIP 66/08IP 66/08IP 66/08R5232111IIN / OUT +-11IIIN / OUT +-<		HX7.4P2.2000.H1	HX7.4P2.4000.H1	HX7.4P2.6000.H1	
Readability (a)1000 g2000 g2000 gMax readability for non-verified scale1000 g2000 g2000 gVerification unit (e)1000 g2000 ug2000 ugTare range-2000 kg-4000 kg-6000 kgVerificationYesYesYesOllal classIIIIIIIIIMax readballity for non-verified scale22Platform materialAl5304 stainless steelAl5304 stainless steelAl5304 stainless steelMeighing pan materialAl5304 stainless steelAl5304 stainless steelAl5304 stainless steelDisplay7 graphic display7 graphic display7 graphic displayNeidstor fasteningCable (6) a meterscable (6) a meterscable (6) a metersDisplay7 graphic display7 graphic display7 graphic displayNeidstor fasteningIP 66IP 66IP 66Indicator fasteningIP 66/68IP 66/68IP 66/68Ingress protection - indicatorIP 66/68IP 66/68IP 66/68S232111IIN / OUT4 x IN / 4 x OUT4 x IN / 4 x OUT2 x IN / 4 x OUTS845 **111IIN / OUT**1 x 4 20m A, 0 IOYX 20 X 20 x 6 0 Hz100 + 240 V AC 50 + 60 HzN / OUT**1 x 4 20m A, 0 IOYX 20 X C 50 + 60 Hz100 + 240 V AC 50 + 60 HzN / OUT**1 x 4 20m A, 0 IOYX 20 X C 50 + 60 Hz100 + 240 V AC 50 + 60 HzN / OUT**1 x 4 20m A, 0 IOYX	Maximum capacity [Max]	2000 kg	4000 kg	6000 kg	
Maxeadability for non-verified1000 g2000 g2000 gVerification unt (e)1000 g4000 kg4000 kgTare range-2000 kg4000 kg6000 kgVerificationVeVeVeMax number of platform101010Max number of platformAlS04 stailes steelAlS04 stailes steelAlS04 stailes steelMeighing pan materialAlS04 stailes steelAlS04 stailes steelAlS04 stailes steelNotactaf SteiningOrganic display7graphic display7graphic displayPopely7graphic displayMembrane, 22-keymembrane, 22-keyIndicator fasteningPos displayPos displayPos displayIngress protection - IndicatorPos displayPos displayPos displayIngress	Minimum capacity	20 kg	40 kg	40 kg	
scaleinitialinitialinitialVerification unit [e]1000 g2000 g2000 gTare range2000 kg-4000 kg-6000 kgVerificationVesVesVesOML classIIIIIIIIIIIIMax number of platforms222Platform materialAIS104 stainless steelAIS104 stainless steelAIS104 stainless steelIndicator fasteningcable (k) 3 meterscable (k) 3 meterscable (k) 3 metersDispay7gaphic display7graphic display7graphic displayIndicator fasteningPUE HX7PUE HX7PUE HX7Indicator fasteningPUE HX7PUE HX7PUE HX7Indicator fasteningPUE HX7PUE HX7PUE HX7Indicator fasteningPUE HX7PUE HX7PUE HX7Ingress protection - platformIP 66/68IP 66/68IP 66/68Ingress protection - indicator111St3241111St3241111Ingress protection - indicator111N/ OUT4.NI/ 4.VOUT111St3241111N/ OUT*1111N/ OUT*1111N/ OUT*1111N/ OUT*1111N/ OUT*1111N/ OUT*1111<	Readability [d]	1000 g	2000 g	2000 g	
Tar range-000 kg-000 kg-000 kg-000 kgVerificationVerific	Max readability for non-verified scale	1000 g	2000 g	2000 g	
VerificationYesYesYesYesOML classIIIIIIIIIIIIMax number of platforms222Platform materialAISI304 stainless steelAISI304 stainless steelAISI304 stainless steelMisilauk stainlessAISI304 stainless steelAISI304 stainless steelAISI304 stainless steelIndicator fasteningcable (k) 3 meterscable (k) 3 meterscable (k) 3 metersDisplay7'graphic display7'graphic display7'graphic displayReybardmembrane, 22-keymembrane, 22-keymembrane, 22-keyIndicator fypePUE HX7PUE HX7PUE HX7Ingress protection - platformIP 66IP 66/68IP 66/68Ingress protection - platformIP 66/68IP 66/68IP 66/68Ingress protection - indicatorIP 66/68IP 66/68IP 66/68IS32111IN / OUT4 × IN / 4 × OUT4 × IN / 4 × OUT4 × IN / 4 × OUTStage **111IN / OUT **12 × IN / 12 × OUT12 × IN / 12 × OUT12 × IN / 12 × OUTAN module **12 × IN / 12 × OUT12 × IN / 12 × OUT12 × IN / 12 × OUTNord up ***I2 × IN / 12 × OUT100 + 240 V AC 50 + 60 Hz100 + 240 V AC 50 + 60 HzOptional power supply ***I2 × IN / 12 × OUT12 × IN / 12 × OUT12 × IN / 12 × OUTAN module ***12 × IN / 12 × OUT100 + 240 V AC 50 + 60 Hz100 + 240 V AC 50 + 60 HzOptional power supply ***12 × IN / 12	Verification unit [e]	1000 g	2000 g	2000 g	
Oll LdssIIIIIIIIIMax number of platforms222Platform materialAISI04 stainless steelAISI04 stainless steelAISI04 stainless steelWeighing pan materialAISI04 stainless steelAISI04 stainless steelAISI04 stainless steelIndicator fastningcable (0.3 meterscable (0.3 metersAISI04 stainless steelDisplay7'graphic display7'graphic display7'graphic display7'graphic displayIndicator fastningPUE HX7PUE HX7PUE HX7PUE HX7Ingress protection - IndicatorIP 66/68IP 66/68IP 66/68Ingress protection - IndicatorIP 66/68IP 66/68IP 66/68Ingress protection - IndicatorIP 66/68IP 66/68IP 66/68IN/ OUT4 xIN / 4 xOUT4 xIN / 4 xOUT4 xIN / 4 xOUTSta22111IIN/ OUT4 xIN / 4 xOUT4 xIN / 4 xOUT1 xIN / 4 xOUTSt324************************************	Tare range	–2000 kg	–4000 kg	–6000 kg	
Max number of platforms22Platform materialAlSI304 stainless steelAlSI304 stainless steelAlSI304 stainless steelWeighing pan materialAlSI304 stainless steelAlSI304 stainless steelAlSI304 stainless steelIndicator fasteningcable (k) 3 meterscable (k) 3 meterscable (k) 3 metersDisplay7 graphic display7 graphic display7 graphic displaymembrane, 22-keyIndicator typePUE HX7PUE HX7PUE HX7PUE HX7Ingress protection - platformP66P66P66R52321111R52321111R52321111NU/ OUT4 x IN / 4 x OUTR5435 **1111R5435 **1111NU OUT **1 x IN / 12 x OUT1 x X IN / 12 x OUT1 x X IN / 12 x OUTNodule **11 x X IN / 12 x OUT1 x X IN / 12 x OUT1 x X IN / 12 x OUTNodule **11 x X IN / 12 x OUT1 x X IN / 12 x OUT1 x X IN / 12 x OUTNodule **1 x X IN / 2 x OUT1 x X IN / 2 x OUT1 x X IN / 2 x OUTNodule **1 x X IN / 2 x OUT1 x X IN / 2 x OUT1 x X IN / 2 x OUTNodule **1 x X IN / 2 x OUT1 x X IN / 2 x OUT1 x X IN / 2 x OUTNodule **1 x X IN / 2 x OUT1 x X IN / 2 x OUT1 x X IN / 2 x OUTNodule **1 x X IN / 2 x OUT1 x	Verification	Yes	Yes	Yes	
Platform materialAISI304 stainless steelAISI304 stainless steelAISI304 stainless steelWeighing pan materialAISI304 stainless steelAISI304 stainless steelAISI304 stainless steelIndicator fasteningcable (k) 3 meterscable (k) 3 meterscable (k) 3 metersDisplay7'graphic display7'graphic display7'graphic displayMethodmembrane, 22-keymembrane, 22-keyPUE HX7Indicator fypePUE HX7PUE HX7PUE HX7Indigress protection - indicatorIP 66IP 66IP 66Ingress protection - indicatorIP 66/68IP 66/68IP 66/68Ingress protection - indicatorIP 66/68IP 66/68IP 66/68Ingress protection - indicatorIP 66/68IP 66/68IP 66/68Instruction11IUSB11IIN/ OUT4 × IN / 4 × OUT4 × IN / 4 × OUT4 × IN / 4 × OUTRS425 **111IN / OUT **1×1/12 × OUT1×4/20mA, 0-10VN / OUT **1×2/0/A, 0-10V1×4/20mA, 0-10VAN module **1×2/0/A, 0-10V1×4/20mA, 0-10VCommunication protocolASCII Text / Modbus RTU / TCPASCII Text / Modbus RTU / TCPPower onsumption10×240 VAC 50+60 Hz10×240 VAC 50+60 Hz10×240 VAC 50+60 HzOptional power supply **10×440 C10×440 C10×450 COptional power supply **10×440 C10×450 C10×450 COptional power supply **10×450 C10×450 C10×45	OIML class	111	111	III	
Weighing an materialAISI304 stainless steelAISI304 stainless steelAISI304 stainless steelIndicator fasteningcable (K) 3 meterscable (K) 3 meterscable (K) 3 metersDisplay7'graphic display7'graphic display7'graphic displayKeyboardmembrane, 22-keymembrane, 22-keymembrane, 22-keyIndicator typePUE HX7PUE HX7PUE HX7Ingress protection - indicatorIP 66IP 66/68IP 66/68Ingress protection - indicatorIP 66/68IP 66/68IP 66/68S232111IP 6/7IN/ OUT4 × IN / 4 × 0UT4 × IN / 4 × 0UT4 × IN / 4 × 0UTS232 **2222RS485 **111IN/ OUT **11 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×	Max number of platforms	2	2	2	
Indicator fasteningcable (K) 3 meterscable (K) 3 meterscable (K) 3 metersDisplay7'graphic display7'graphic display7'graphic displayKeyboardmembrane, 22-keymembrane, 22-keymembrane, 22-keyIndicator typePUE HX7PUE HX7PUE HX7Ingress protection - platformIP 68IP 68IP 68Ingress protection - indicatorIP 66/68IP 66/68IP 66/68R5232111IUSB111IKthrong4 x IN / 4 x OUT4 x IN / 4 x OUT4 x IN / 4 x OUTR5232 **2222R5485 **111IN / OUT **12 x IN / 12 x OUT12 x IN / 12 x OUT12 x IN / 12 x OUTNodule **1111IN / OUT **12 x IN / 12 x OUT12 x IN / 12 x OUT12 x IN / 12 x OUTNodule **1111IN / OUT **12 x IN / 12 x OUT12 x IN / 12 x OUT12 x IN / 12 x OUTNodule **10 + 240V AC 50 + 60 Hz100 + 240V AC 50 + 60 Hz100 + 240V AC 50 + 60 HzOptional power supply100 + 240V AC 50 + 60 Hz100 + 240V AC 50 + 60 Hz100 + 240V AC 50 + 60 HzOptional power supply10 + 40°C12 x IN / 12 x OUT12 x IN / 12 x OUT25 WOptional power supply10 + 240V AC 50 + 60 Hz10 + 240V AC 50 + 60 Hz10 + 240V AC 50 + 60 HzOptional power supply10 + 240V AC 50 + 60 Hz10 + 85%10 + 85%Tra	Platform material	AISI304 stainless steel	AISI304 stainless steel	AISI304 stainless steel	
Display   7*graphic display   7*graphic display   7*graphic display     Keyboard   membrane, 22-key   membrane, 22-key   membrane, 22-key     Indicator type   PUE HX7   PUE HX7   PUE HX7     Ingress protection - latiform   IP 68   IP 66/68   IP 66/68     Ingress protection - indicator   IP 66/68   IP 66/68   IP 66/68     R5232   1   1   1     USB   1   1   1     Statistic   1   1   1     IN / OUT   4× IN / 4× OUT   4× IN / 4× OUT   4× IN / 4× OUT     R5232 **   2   2   2   2     R548 **   1   1   1     I/ OUT **   12× IN / 12× OUT   12× IN / 12× OUT   12× IN / 12× OUT     Nodule **   1   1   1   1     R5000000000000000000000000000000000000	Weighing pan material	AISI304 stainless steel	AISI304 stainless steel	AISI304 stainless steel	
Keyboardmembrane, 22-keymembrane, 22-keymembrane, 22-keyIndicator typePUE HX7PUE HX7PUE HX7Ingress protection - IndicatorIP 68IP 68IP 68Ingress protection - indicatorIP 66/68IP 66/68IP 66/68RS232111IUSB111IIN/ OUT4×IN /4 × OUT4×IN /4 × OUT4×IN /4 × OUTRS232***2221IN/ OUT **111IN/ OUT **111IN/ OUT **111IN/ OUT **1×12 × OUT1×112 × OUT1×112 × OUTRS485 **1111IN/ OUT **1×420mA, 0-10V1×420mA, 0-10V1×420mA, 0-10VCommination protoolASCII Text / Modbus RTU /TCPASCII Text / Modbus RTU /TCPASCII Text / Modbus RTU /TCPPower supply100 + 240 VA C50 + 60 Hz100 + 240 VA C50 + 60 Hz100 + 240 VA C50 + 60 Hz100 + 240 VA C50 + 60 HzOptional power supply**100 + 240 VA C50 + 60 Hz100 + 240 VA C50 + 60 Hz100 + 240 VA C50 + 60 Hz25WOperating temperature-100 + 40°C100 + 240 VA C50 + 60 Hz100 + 240 VA C50 + 60 Hz100 + 240 VA C50 + 60 HzOperating temperature-100 + 40°C-100 + 40°C100 + 240 VA C50 + 60 Hz100 + 240 VA C50 + 60 Hz100 + 240 VA C50 + 60 HzMar Power consumption25W25W25W25W25W25WRelative humidity ****100 + 550°C <td>Indicator fastening</td> <td>cable (K) 3 meters</td> <td>cable (K) 3 meters</td> <td>cable (K) 3 meters</td>	Indicator fastening	cable (K) 3 meters	cable (K) 3 meters	cable (K) 3 meters	
Indicator type   PUE HX7   PUE HX7   PUE HX7     Ingress protection - jaltform   IP 68   IP 68   IP 68     Ingress protection - indicator   IP 66/68   IP 66/68   IP 66/68     RS232   1   1   1     USB   1   1   1     Ethernet   1   1   1     IN / OUT   4×IN / 4×OUT   4×IN / 4×OUT   4×IN / 4×OUT     RS232 **   2   2   2     RS485 **   1   1   1     I/ VOUT *   1×4/20MA, 0-10V   1×4/20MA, 0-10V   1×4/20MA, 0-10V     AN module **   1×4/20MA, 0-10V   1×4/20MA, 0-10V   1×4/20MA, 0-10V     AN module **   1×4/20MA, 0-10V   1×4/20MA, 0-10V   1×4/20MA, 0-10V     Communication protocol   ASCII Text / Modbus RTU / TCP   ASCII Text / Modbus RTU / TCP   ASCII Text / Modbus RTU / TCP     Pover supply   100+240 V AC 50 + 60 Hz   100+240 V AC 50 + 60 Hz   100+240 V AC 50 + 60 Hz     Optional power supply ***   12-24 V DC   12-24 V DC   12-24 V DC     Relative humidity ***	Display	7" graphic display	7" graphic display	7" graphic display	
Ingress protection - platform   IP 68   IP 68   IP 68     Ingress protection - indicator   IP 66/68   IP 66/68   IP 66/68     RS232   1   1   1     USB   1   1   1     Ethernet   1   1   1     IV / OUT   4 × IN / 4 × OUT   4 × IN / 4 × OUT   4 × IN / 4 × OUT     RS232 **   2   2   2   2     RS48 **   1   1   1   1     IV / OUT **   1 × X-20TA   1 × X-20TA   1 × X-20TA     AN module **   1 × 4.20mA,0-10V   1 × 4.20mA,0-10V   1 × 4.20mA,0-10V     Communication protocol   XGUText / Modbus RTU/TCP   XGUText / Modbus RTU/TCP   XGUText / Modbus RTU/TCP     AN module **   10× 420V AC 50÷ 60 Hz   10× 240V AC 50÷ 60 Hz   10× 240V AC 50÷ 60 Hz     Optional power supply   10× 40 VC   10× 40 VC   10× 40 VC     Operating temperature   -10÷ 40 °C   -10÷ 40 °C   -10÷ 40 °C     Relative humidity ****   10÷ 85%   10÷ 85%   10÷ 85%     Weighing	Keyboard	membrane, 22-key	membrane, 22-key	membrane, 22-key	
Ingress protection - indicator   IP 66/68   IP 66/68     Ingress protection - indicator   IP 66/68   IP 66/68     R5232   1   1   1     USB   1   1   1     Ethernet   1   1   1     IN / OUT   4 × IN / 4 × OUT   4 × IN / 4 × OUT   4 × IN / 4 × OUT     R5232 **   2   2   2   2     R5485 **   1   1   1   1     IV / OUT **   1 × 12 × OUT   1 × 2 × IN / 12 × OUT   1 × 420M A, 0-10V   1 × 420M A, 0-10V     N module **   1 × 4-20M A, 0-10V   1 × 4-20M A, 0-10V   1 × 4-20M A, 0-10V   2 × IN / 1 × × OUT     Operating temperature   1 × 4-20M A, 0-10V   1 × 4-20M A, 0-10V   1 × 4-20M A, 0-10V   2 × IN / 1 × × OUT     Outpriver Supply   10 × 4-20V AC 50 + 60 Hz   10 × 4-20W AC 50 + 60 Hz   10 × 240 VAC 50 + 60 Hz   10 × 240 VAC 50 + 60 Hz     Optional power supply   10 × 44 ° °C   -10 × 44 ° °C   -10 × 44 ° °C     Optional power supply   10 × 450 °C   10 × 450 °C   -10 × 44 ° °C     T	Indicator type	PUE HX7	PUE HX7	PUE HX7	
RS32 1 1 1   USB 1 1 1   Ethernet 1 1 1   IN / OUT 4 × IN / 4 × OUT 4 × IN / 4 × OUT 4 × IN / 4 × OUT   RS4232 ** 2 2 2   RS485 ** 1 1 1   USB ** 1 1 1   IN / OUT ** 12 × IN / 12 × OUT 12 × IN / 12 × OUT 12 × IN / 12 × OUT   AN module ** 1 × 4-20mA, 0-10V 1x 4-20mA, 0-10V 1x 4-20mA, 0-10V   Communication protocol ASCII Text / Modbus RTU / TCP ASCII Text / Modbus RTU / TCP ASCII Text / Modbus RTU / TCP   Power supply 100 + 240 V AC 50 ÷ 60 Hz 100 + 240 V AC 50 ÷ 60 Hz 100 + 240 V AC 50 ÷ 60 Hz   Optional power supply 100 + 240 V AC 50 ÷ 60 Hz 100 + 240 V AC 50 ÷ 60 Hz 100 + 240 V AC 50 ÷ 60 Hz   Operating temperature -10 ÷ +40 °C -10 ÷ +40 °C -10 ÷ +40 °C -10 ÷ +40 °C   Operating temperature -10 ÷ +40 °C -10 ÷ +50 °C -10	Ingress protection - platform	IP 68	IP 68	IP 68	
USB111Ethernet111<	Ingress protection - indicator	IP 66/68	IP 66/68	IP 66/68	
Ethernet111IV/OUT4×IN/4×OUT4×IN/4×OUT4×IN/4×OUTR5232**222R548**111USB **111IV/OUT**2×IN/12×OUT1×12×OUT1×12×OUTAN module **1×2·ONA,0-10V1×2·ONA,0-10V1×2·ONA,0-10VOmmunication protocolASCIText / Modbus RTU / TCPASCIText / Modbus RTU / TCPPower supply10×2·0VAC 50+60 Hz10×2·0VAC 50+60 Hz10×2·0VAC 50+60 HzOptional power supply**12·2·4/DC25/V25/VOperating temperature10×4·0°C10×4·0°C10×4·0°CRelative humidity***10×5·0°C10×5·0°C10×5·0°CWeighing pan dimensions2beams,2 molong distance between beams up to 5 m2beams,2 molong distance between beams up to 5 m <td< td=""><td>RS232</td><td>1</td><td>1</td><td>1</td></td<>	RS232	1	1	1	
Not   4×IN/4×OUT   4×IN/4×OUT   4×IN/4×OUT     RS232**   2   2     RS485**   1   1   1     USB **   1   1   1     IVOUT**   12×IN/12×OUT   12×IN/12×OUT   12×IN/12×OUT     AN module **   1×420mA,0-10V   12×IN/12×OUT   12×IN/12×OUT     Communication protocol   ASCII Text / Modbus RTU / TCP   ASCII Text / Modbus RTU / TCP   ASCII Text / Modbus RTU / TCP     Power supply   10° ±240 VAC 50° ±60 Hz   10° ±240 VAC 50° ±60 Hz   10° ±240 VAC 50° ±60 Hz     Optional power supply **   12×4 VDC   12×4 VDC   12×4 VDC   12×4 VDC     Max Power consumption   25 W   25 W   25 W   25 W     Optating temperature   -10° ±40°C   -10° ±40°C   -10° ±40°C   -10° ±40°C     Relative humidity ***   10° ±85%   10 ± 85%   10 ± 85%   10 ± 85%     Transport and storage temperature   -10° ±50°C   -10° ±50°C   -10° ±50°C   -10° ±50°C     Weighing pan dimensions   2beams, 2 m long (distance between beams up to 5 m)   2beams, 2 m long (distance between b	USB	1	1	1	
R5232**222R5485**111USB **111IN/OUT **12×IN/12×OUT12×IN/12×OUT12×IN/12×OUTAN module **1×420mA,010V1×420mA,010V1×420mA,010VCommunication protocolASCI Text / Modbus RTU / TCPASCI Text / Modbus RTU / TCPASCI Text / Modbus RTU / TCPPower supply100÷240 VA C50÷60 Hz100÷240 VA C50÷60 Hz100÷240 VA C50÷60 HzOptional power supply **12×4 VDC12×24 VDC12×24 VDCASR Power consumption5×025W25WOperating temperature10÷40 °C10÷430 °C10÷430 °CInsport and storage temperature10÷50 °C10÷50 °C10÷50 °CWeighing pan dimensions2bams,2 mlong (distance between bams up to 5 ml2bams,2 mlong (distance between 	Ethernet	1	1	1	
RS485 ** 1 1 1   RS485 ** 1 1 1   USB ** 1 1 1   IN / OUT ** 12 × IN / 12 × OUT 12 × IN / 12 × OUT 12 × IN / 12 × OUT   AN module ** 1× 4-20mA, 0-10V 1× 4-20mA, 0-10V 1× 4-20mA, 0-10V   Communication protocol ASCII Text / Modbus RTU / TCP ASCII Text / Modbus RTU / TCP ASCII Text / Modbus RTU / TCP   Power supply 100 ÷ 240 V AC 50 ÷ 60 Hz 100 ÷ 240 V AC 50 ÷ 60 Hz 100 ÷ 240 V AC 50 ÷ 60 Hz 100 ÷ 240 V AC 50 ÷ 60 Hz   Optional power supply ** 12-24 V DC 12-24 V DC 25 W 25 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)   Net weight **** 8,5 kg 12,6 kg 12,6 kg 2,6 kg	IN / OUT	$4 \times IN / 4 \times OUT$	$4 \times IN / 4 \times OUT$	$4 \times IN / 4 \times OUT$	
USB **111IN / OUT **12×IN/12×OUT12×IN/12×OUT12×IN/12×OUTAN module **1×420mA,0-10V1×420mA,0-10V1×420mA,0-10VCommunication protocolASCI Text / Modbus RTU / TCPASCI Text / Modbus RTU / TCPASCI Text / Modbus RTU / TCPPower supply100÷240 VA C50÷60 Hz100÷240 VA C50÷60 Hz100÷240 VA C50÷60 HzOptional power supply **12×24 VDC12×4 VDC12×4 VDCMax Power consumption25W25W25WOperating temperature-10÷440°C-10÷440°C-10÷43°CRelative humidity ***10÷85%10÷85%10÷85%Transport and storage temperature2beams,2 m long (distance between beams up to 5 m)2beams,2 m long (distance between beams up to 5 m) <td>RS232 **</td> <td>2</td> <td>2</td> <td>2</td>	RS232 **	2	2	2	
IN / OUT **   12 × IN / 12 × OUT   12 × IN / 12 × OUT   12 × IN / 12 × OUT     AN module **   1× 4-20mA, 0-10V   1× 4-20mA, 0-10V   1× 4-20mA, 0-10V     Communication protocol   ASCII Text / Modbus RTU / TCP   ASCII Text / Modbus RTU / TCP   ASCII Text / Modbus RTU / TCP     Power supply   100 ÷ 240 V AC 50 ÷ 60 Hz   100 ÷ 240 V AC 50 ÷ 60 Hz   100 ÷ 240 V AC 50 ÷ 60 Hz     Optional power supply **   12-24 V DC   12-24 V DC   12-24 V DC     Max Power consumption   25 W   25 W   25 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)     Net weight ****   85 kg   12,6 kg   12,6 kg   12,6 kg	RS485 **	1	1	1	
AN module ** 1× 4-20mA, 0-10V 1× 4-20mA, 0-10V 1× 4-20mA, 0-10V   Communication protocol ASCII Text / Modbus RTU / TCP ASCII Text / Modbus RTU / TCP ASCII Text / Modbus RTU / TCP   Power supply 100 ÷ 240 V AC 50 ÷ 60 Hz 100 ÷ 240 V AC 50 ÷ 60 Hz 100 ÷ 240 V AC 50 ÷ 60 Hz 100 ÷ 240 V AC 50 ÷ 60 Hz   Optional power supply ** 12-24 V DC 12-24 V DC 12-24 V DC 12-24 V DC   Max Power consumption 25 W 25 W 25 W 25 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)   Net weight **** 61.7 kg 99.7 kg 99.7 kg 99.7 kg	USB **	1	1	1	
Communication protocol   ASCII Text / Modbus RTU / TCP   ASCII Text / Modbus RTU / TCP   ASCII Text / Modbus RTU / TCP     Power supply   100 ÷ 240 V AC 50 ÷ 60 Hz   100 ÷ 240 V AC 50 ÷ 60 Hz   100 ÷ 240 V AC 50 ÷ 60 Hz     Optional power supply**   12-24 V DC   12-24 V DC   12-24 V DC     Max Power consumption   25 W   25 W   25 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)   99,7 kg     Net weight ****   88,5 kg   126,5 kg   126,5 kg   126,5 kg	IN / OUT **	$12 \times IN / 12 \times OUT$	$12 \times IN / 12 \times OUT$	$12 \times IN / 12 \times OUT$	
Power supply   100 ÷ 240 V AC 50 ÷ 60 Hz   100 ÷ 240 V AC 50 ÷ 60 Hz   100 ÷ 240 V AC 50 ÷ 60 Hz     Optional power supply **   12-24 V DC   12-24 V DC   12-24 V DC     Max Power consumption   25 W   25 W   25 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)   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)   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)   2 beams up to 5 m)   2 beams up to 5 m)     Net weight *****   88,5 kg   126,5 kg   126,5 kg   126,5 kg	AN module **	1× 4-20mA, 0-10V	1× 4-20mA, 0-10V	1× 4-20mA, 0-10V	
Optional power supply **   12-24 V DC   12-24 V DC   12-24 V DC     Max Power consumption   25 W   25 W   25 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)   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)   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)   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)   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)   2 beams, 2 m long (distance between beams up to 5 m)   2 beams, 2 m long (distance between beams up to 5 m)     Net weight *****   8 8,5 kg	Communication protocol	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP		
Max Power consumption   25 W   25 W   25 W     Operating temperature   -10 ÷ +40 °C   Relative humidity ***   10 ÷ 85%   10 ÷ 85%   10 ÷ 85%   10 ÷ 85%   10 ÷ 85%   10 ÷ 95 °C   -10 ÷ +50 °C   Seams, 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)   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)   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)   99,7 kg   99,7 kg   99,7 kg   99,7 kg   126,5 k	Power supply	100 ÷ 240 V AC 50 ÷ 60 Hz	100 ÷ 240 V AC 50 ÷ 60 Hz	100 ÷ 240 V AC 50 ÷ 60 Hz	
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)     Net weight ****   61,7 kg   99,7 kg   99,7 kg   99,7 kg     Gross weight ****   88,5 kg   126,5 kg   126,5 kg   126,5 kg	Optional power supply **	12-24 V DC	12-24 V DC	12-24 V DC	
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)   99,7 kg     Net weight ****   88,5 kg   126,5 kg   126,5 kg   126,5 kg	Max Power consumption	25 W	25 W		
Transport and storage temperature $-10 \div +50 ^{\circ}\text{C}$ $-10 \div +50 ^{\circ}\text{C}$ Weighing pan dimensions $2 \text{ beams, 2 m long (distance between beams up to 5 m)}$ $2 \text{ beams, 2 m long (distance between beams up to 5 m)}$ $2 \text{ beams, 2 m long (distance between beams up to 5 m)}$ Net weight **** $61.7 \text{ kg}$ $99.7 \text{ kg}$ $99.7 \text{ kg}$ Gross weight **** $88.5 \text{ kg}$ $126.5 \text{ kg}$ $126.5 \text{ kg}$	Operating temperature	−10 ÷ +40 °C	-10 ÷ +40 ℃	-10 ÷ +40 ℃	
temperatureWeighing pan dimensions2 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)Net weight ****61,7 kg99,7 kg99,7 kgGross weight ****88,5 kg126,5 kg126,5 kg	Relative humidity ***	10 ÷ 85%	10 ÷ 85%		
beams up to 5 m)   beams up to 5 m)   beams up to 5 m)     Net weight ****   61,7 kg   99,7 kg   99,7 kg     Gross weight ****   88,5 kg   126,5 kg   126,5 kg		−10 ÷ +50 °C	−10 ÷ +50 °C	-10 ÷ +50 ℃	
<b>Gross weight ****</b> 88,5 kg 126,5 kg 126,5 kg	Weighing pan dimensions	0	-	-	
	Net weight ****	61,7 kg	99,7 kg	99,7 kg	
Packaging dimensions   220 × 40 × 67 cm   220 × 40 × 67 cm   220 × 40 × 67 cm	Gross weight ****	88,5 kg	126,5 kg	126,5 kg	
	Packaging dimensions	220 × 40 × 67 cm	220 × 40 × 67 cm	220 × 40 × 67 cm	

- \*\* optional design
- \*\*\* non-condensing conditions

<sup>\*</sup> possibility to make the device a dual range weighing model

<sup>\*\*\*\*</sup> mass of the packaging containing the PUE HX7 indicator and the platform

## Technical Specifications

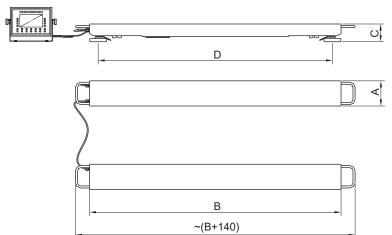
	HX7.4P2.2000.H2	HX7.4P2.4000.H2	HX7.4P2.6000.H2	
Maximum capacity [Max]	2000 kg	4000 kg	6000 kg	
Minimum capacity	20 kg	40 kg	40 kg	
Readability [d]	1000 g	2000 g	2000 g	
Max readability for non-verified scale	1000 g	2000 g	2000 g	
Verification unit [e]	1000 g	2000 g	2000 g	
Tare range	–2000 kg	–4000 kg	–6000 kg	
Verification	Yes	Yes	Yes	
OIML class	III	III	III	
Max number of platforms	2	2	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	cable (K) 3 meters	cable (K) 3 meters	cable (K) 3 meters	
Display	7″ graphic display	7" graphic display	7″ graphic display	
Keyboard	membrane, 22-key	membrane, 22-key	membrane, 22-key	
Indicator type	PUE HX7	PUE HX7	PUE HX7	
Ingress protection - platform	IP 68	IP 68	IP 68	
Ingress protection - indicator	IP 66/68	IP 66/68	IP 66/68	
RS232	1	1	1	
USB	1	1	1	
Ethernet	1	1	1	
IN / OUT	$4 \times IN / 4 \times OUT$	$4 \times IN / 4 \times OUT$	$4 \times IN / 4 \times OUT$	
RS232 **	2	2	2	
RS485 **	1	1	1	
USB **	1	1	1	
IN / OUT **	$12 \times IN / 12 \times OUT$	12 × IN / 12 × OUT	12 × IN / 12 × OUT	
AN module **	1× 4-20mA, 0-10V	1× 4-20mA, 0-10V	1× 4-20mA, 0-10V	
Communication protocol	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP	ASCII Text / Modbus RTU / TCP	
Power supply	100 ÷ 240 V AC 50 ÷ 60 Hz	100 ÷ 240 V AC 50 ÷ 60 Hz	100 ÷ 240 V AC 50 ÷ 60 Hz	
Optional power supply **	12-24 V DC	12-24 V DC	12-24 V DC	
Max Power consumption	25 W	25 W	25 W	
Operating temperature	-10 ÷ +40 ℃	-10 ÷ +40 ℃	-10 ÷ +40 ℃	
Relative humidity ***	10 ÷ 85%	10 ÷ 85%	10 ÷ 85%	
Transport and storage temperature	−10 ÷ +50 °C	−10 ÷ +50 °C	-10 ÷ +50 ℃	
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)	
Net weight ****	73,7 kg	113,7 kg	141,7 kg	
Gross weight ****	106,5 kg	146,5 kg	174,5 kg	
Packaging dimensions	270 × 40 × 67 cm	270 × 40 × 67 cm	270 × 40 × 67 cm	

possibility to make the device a dual range weighing model optional design \*

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\*\*\*

non-condensing conditions mass of the packaging containing the PUE HX7 indicator and the platform \*\*\*\*



	Α	В	С	D
HX7.4P2.600.H	120	1200	85	1100
HX7.4P2.1500.H	120	1200	85	1100
HX7.4P2.3000.H	120	1200	85	1100
HX7.4P2.2000.H1	120	2000	105	1900
HX7.4P2.2000.H2	120	2500	105	2400
HX7.4P2.4000.H1	120	2000	155	1880
HX7.4P2.4000.H2	120	2500	155	2380
HX7.4P2.6000.H1	120	2000	155	1880
HX7.4P2.6000.H2	120	2500	155	2380

#### Accessories

#### **Peripheral Devices**

- Epson dot matrix printer
- Zebra labellers
- WWG-2/4 large-size display
- LCD WD-4/3 display (backlit)
- stack light
- control buttons
- transponder card scanner
- barcode scanner

#### Cables, Converters

- PT0019 2m cable (5, 10m optionally) for Citizen and Epson printers
- PT0022 2m cable (5, 10m optionally) for ZEBRA printers (later models)
- PT0232 2m cable (5, 10m optionally) for ZEBRA (older models),
- INTERMEC and ELTRON printers
- PT0020 2m cable (5, 10m optionally) for computer
- PT0087 cable (M12 4P) 1.7m for USB printer
- PT0238 1.7m cable for printer (A-B)
- PT0084 (M12 4P) 1.7m cable for USB adapter
- PT0383 2m cable (5, 10m optionally) for RS485
- PT0256 2m cable (5, 10m optionally) for IN/OUT

### **Dedicated Software**

#### R-LAB

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

#### Label Editor R02

- designing label templates
- sending graphics and fonts to label printers
- printing label templates using connected printers

#### **E2R Weighing Records**

- complete, automated databases synchronization
- fully supported processes of labelling and parts counting
- record of weighings, weighings archiving
- basic and advanced (with graphs) reports

#### RAD KEY

• Establishing cooperation between a weighing instrument and a computer

#### LabView Driver

• operation of RADWAG balances in LabView environment

#### R.Barcode

• The basic function software is presentation of the data sent by barcode scanners connected to PC via USB or RS232

#### 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