

DATA SHEET

# WTX120

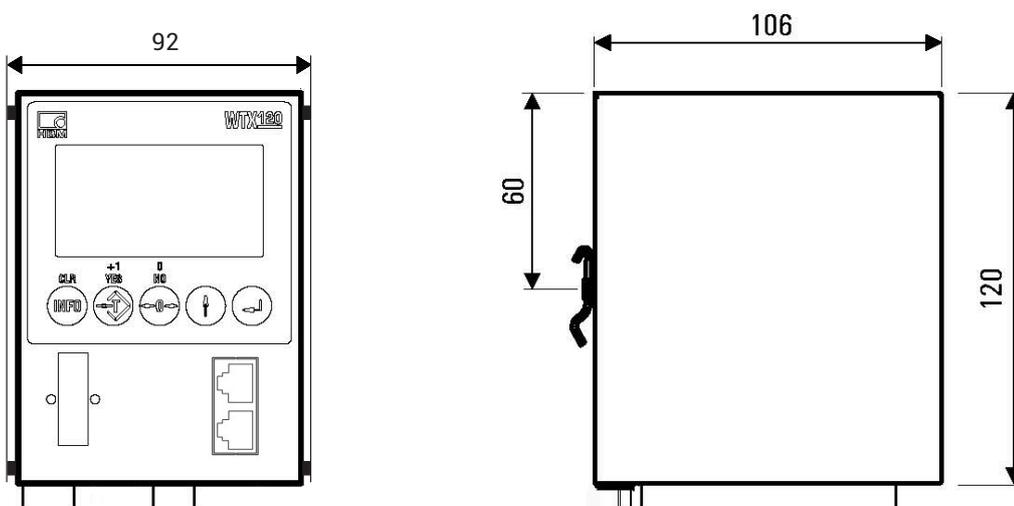
## Legal-for-trade industrial weighing terminal

### SPECIAL FEATURES

- Connection of up to 8 SG load cells (350 ohm) via plug terminals
- Display resolution up to 30000e, legal for trade up to 10000e
- PROFINET, EtherNet/IP™ with integrated Ethernet switch or PROFIBUS DP
- Ethernet TCP/IP, Modbus TCP
- Options: Ethernet, USB 2.0, digital I/Os, analog output, printer port
- Operation via keyboard or PanelX software
- Easy-to-read plain text display with backlight
- Optional indicator for control cabinet installation
- Application for standard weighing, filling/emptying, tank weighing



### DIMENSIONS



Dimensions in mm

## SPECIFICATIONS FOR WTX120

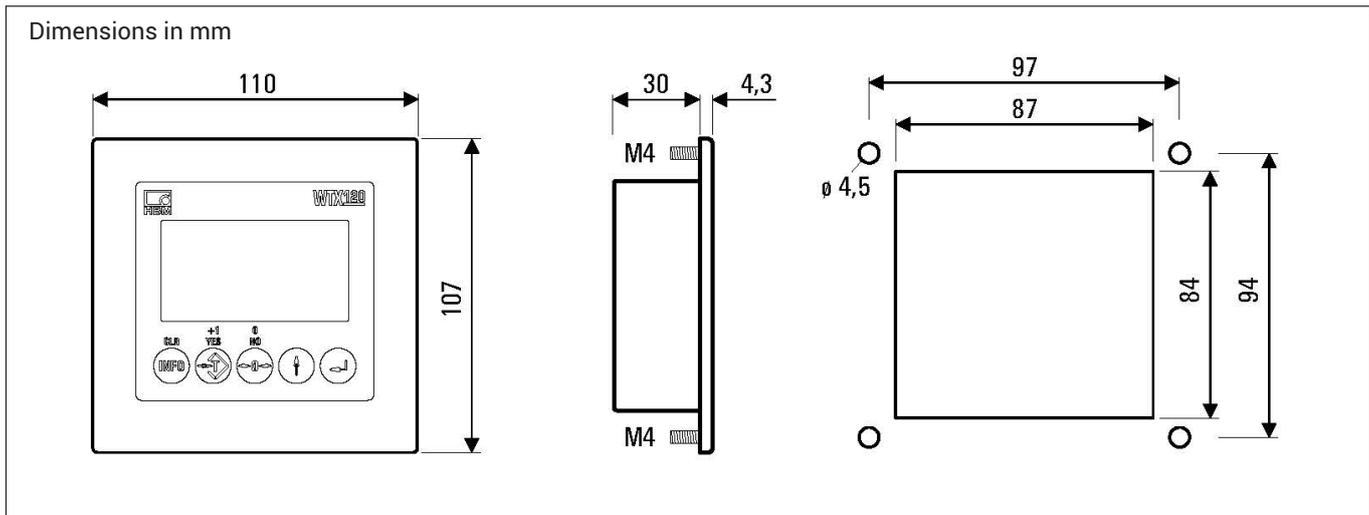
Type		WTX120
Industrial display resolution	d	30,000
Accuracy class as per OIML R76 (Class III and IIII)	d=e	10,000
Input sensitivity, legal for trade	$\mu\text{V}/\text{e}$	0.33
Measuring range	mV/V	$\pm 3$
Load cell connection (short-circuit proof)		6-wire and 4-wire configuration
Max. number of load cells (short-circuit proof)	$\Omega$	8 x 350
Excitation voltage of load cells (short-circuit proof)	$V_{\text{DC}}$	$\pm 5$ clocked
Internal sample rate	1/sec.	50 ... 800
Internal resolution	Divisions	524,000
Non-linearity of measuring range	%	0.018
Temperature coefficient of the zero signal per 10 K	%	0.003
Temperature coefficient of sensitivity per 10 K	%	0.006
Filter		Adjustable digital filter (low-pass)
Minimum transducer resistance	$\Omega$	43
Alibi memory		120,000 memory locations
Multi-range		Yes, adjustable up to 3 ranges
Multi-interval		Yes, adjustable up to 3 ranges
Supply voltage	$V_{\text{DC}}$	12 ... 30 (-15% +10%) protected against polarity reversal
Current consumption	A	1.3 ... 0.4
Maximum power consumption (with 8 x 350 ohm load cells connected)	W	14.5
Maximum power loss	W	11
Minimum wire cross-section for potential equalization	mm <sup>2</sup>	2.5
Maximum number of weighing terminals that can be connected in parallel		8
Display		DOT matrix LCD display, with backlight, dot matrix realization, indication of weight, unit of weight, zero and moving cursor, error messages in plain text, English
Character height of weight value	mm	15
Keyboard		Membrane keypad, 5 short-stroke keys with dual assignment for adjustment and service settings
Standard device connections with plug-in screw terminals		1 x power supply, 1 x load cell connection, 2 x digital outputs, load-carrying capacity of outputs: max. 500 mA at 12 ... 24 $V_{\text{DC}}$ ; Switching threshold of digital inputs Low: $U_{\text{in}} < 3.00 V_{\text{DC}}$ High: $U_{\text{in}} > 6.00 V_{\text{DC}}$ , Current consumption of inputs max. 7 mA at 12 ... 24 $V_{\text{DC}}$
Other standard device connections		1 x Ethernet (RJ45) 1 x USB 2.0 1x external indicator connection (RJ11)
Ethernet and fieldbus interfaces (depending on device version)		PROFINET IO (RT), PROFIBUS DP, EtherNet/IP™, Ethernet TCP, Modbus TCP (via standard Ethernet interface on the underside of the device)

Type		WTX120
Serial interfaces with plug in screw terminals (depending on device version) for connecting to PC, printer or remote indication		RS232, RS485 (4-wire, electrically connected)
Analog output with plug-in screw terminals (depending on device version)	mA V	0-20 mA, 4-20 mA; 0-10 V, 2-10 V; for gross or net weight; 15-bit resolution 30,000 increments, with possibility of adjustment
Digital inputs and outputs with plug-in screw terminals (depending on device version)	VDC	Up to 4 digital inputs and outputs Load-carrying capacity of outputs max. 500 mA at 12 ... 24 V <sub>DC</sub> ; Current consumption of inputs max. 7 mA at 12 ... 24 V <sub>DC</sub> , short-circuit proof, opto-isolated
Mounting type		DIN rail mounting as per EN 50022 (35 x 7.5 mm)
Degree of protection as per EN 60529 (DIN rail mounting)		IP20
<b>Material</b>		
Material		Stainless steel
Weight, approx.	kg	0.9
Dimensions (W x H x D) With optional shield rail	mm	86 x 120 x 106 86 x 199 x 106
<b>Temperature range</b>		
Storage		-25°C ... +70°C at 95% rel. humidity, non-condensing
Operation		-10°C ... +50°C at 95% rel. humidity, non-condensing
Operation when subject to weights and measures legislation		-10°C ... +40°C at 95% rel. humidity, non-condensing
<b>Standards</b>		
Measurement accuracy		EN45501, OIML R76-1, R61-1, R51-1
Immunity to interference		EN 61326-1
Emission (EME)		EN 61326-1, EN55011, Class A, Group 1
Battery		Type CR2032

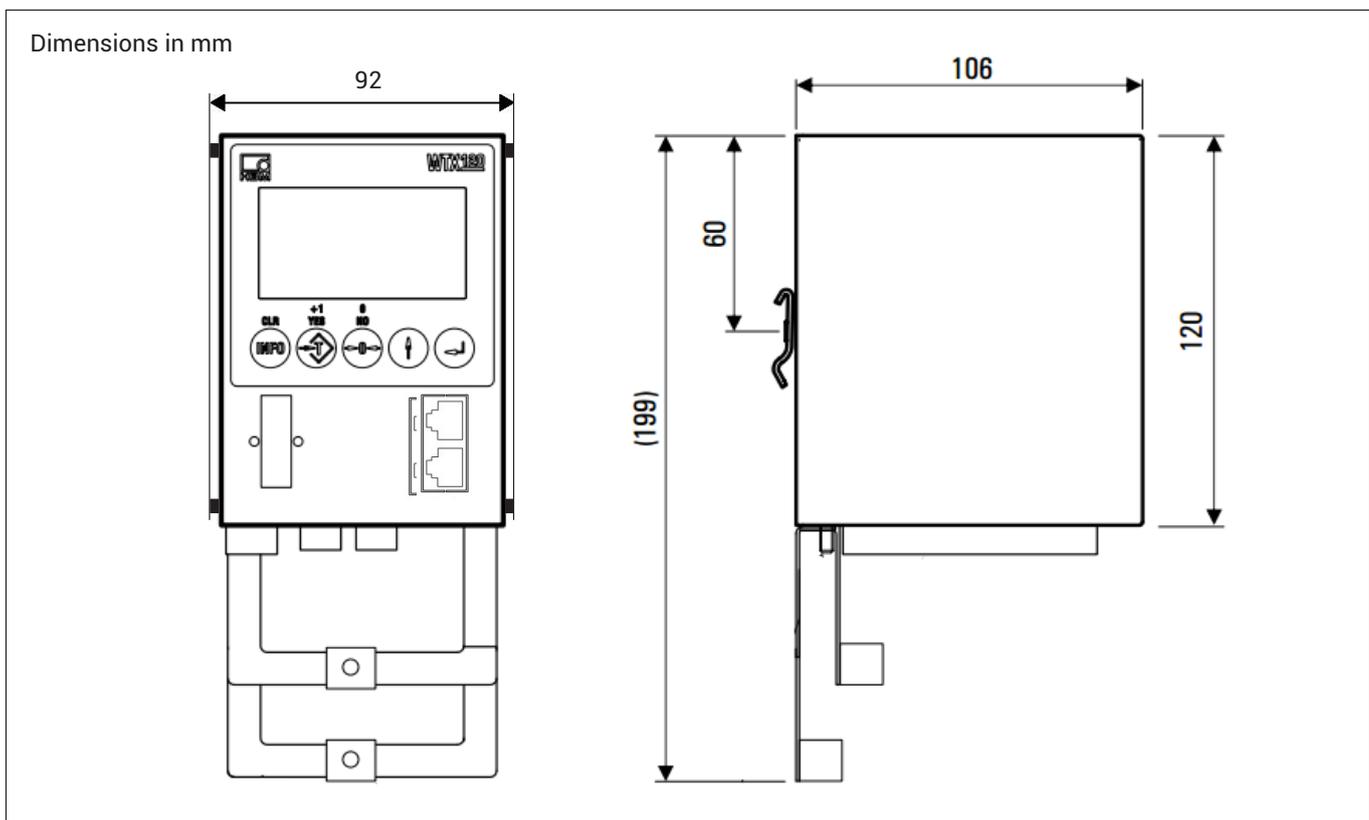
## ACCESSORIES

Description	Ordering number
<b>External indicator for panel mounting</b> with backlight for use of WTX120 Black Box version; 27 Black Box units can be connected (1 Black Box legal for trade); 15 mm weight indicator and status information, 1 to max. 3 operator guidance lines, 5 keys for zeroing, taring and operation; incl. 3 m connection cable; material: Stainless steel; dimensions (W x H x D): 110 x 107 x 35 mm, degree of protection: IP69K; weight: approx. 0.3 kg, maximum length of connection cable 10 m.	1-WTX120-D
<b>Legal for trade set</b> consisting of shielding rail and 2 connection clamps; can be screwed to the underside of the housing, for laying the cable shields of max. 10 cables for legal-for-trade applications.	1-WTX120-LFTSET
<b>Zener barrier combination SB02A</b> The Zener barrier combination comprises 3 barriers.	1-SB02A

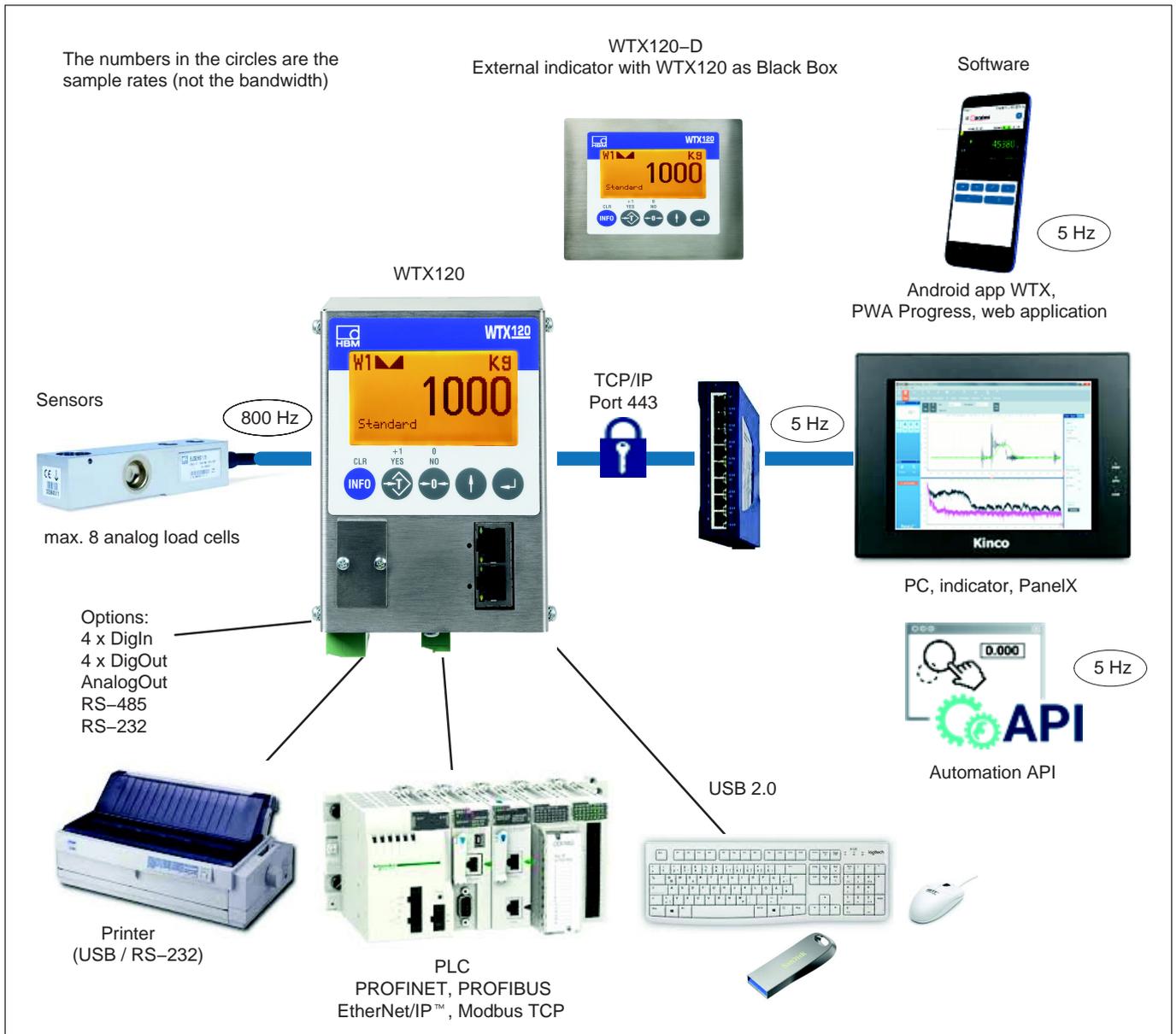
## DIMENSIONS OF EXTERNAL INDICATOR



## DIMENSIONS WITH SHIELD RAIL



# CONNECTION OPTIONS



## PRODUCT NUMBERS

### K-WTX120..., optional versions

K-WTX120		
1	<b>Code</b>	<b>Option 1: Ethernet-based or fieldbus interfaces</b>
	PRONE	PROFINET
	PROBU	PROFIBUS DP
	ETHIP	EtherNet/IP™
	ETHM/	Modbus TCP
2	<b>Code</b>	<b>Option 2: Integrated indicator</b>
	Y	Integrated indicator
	N	Black Box, no indicator (can be combined with external indicator 1-WTX120-D)
3	<b>Code</b>	<b>Option 3: Analog output (mA, V) and/or digital input and output (VDC)</b>
	NO	2 x Digital Out (DO; Standard)
	A/	2 x Digital Out, 2 x Digital In, Analog Out
	/D	4 x Digital Out, 4 x Digital In
	AD	4 x Digital Out, 4 x Digital In, Analog Out
4	<b>Code</b>	<b>Option 4: Serial interfaces</b>
	NOT	Without (standard)
	RS4	RS485 (4-wire)
	RS2	RS232
5	<b>Code</b>	<b>Option 5: Firmware</b>
	A	Standard

K-WTX120 - 

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