BX222/BX222D Weighing Indicator

For All Types of Industrial Scales and Weighing Applications

Key Advantages

- Models working with analogue and digital load cell
- Stainless steel, IP68-rated enclosure
- 6-digit with 36 mm height, high-contrast alphanumeric display
- 3 programmable buttons
- Touch-free button for hygienic environments and fast weighing

High Technology & Performance

- Up to one billion internal resolutions
- High speed up to 1600 cycles/s
- Very high weighing stability
- eCAL electronic calibration with 0.005% accuracy
- Up to 100 tare and product packaging memory

Typical applications

- Product weight control
- Packaging and portion preparation
- Tank, reactor and silo weighing
- Live animal weighing
- Mobile weighing
- PLC, PC connections and remote monitoring/service

BX222 is an extremely accurate, fast, and multi functional economical weighing indicator designed to work with analogue or digital load cell weighing systems in wet, hygienic, and harsh industrial environments.

Basic weighing, product weight control, packaging, portion preparation, live animal weighing, and tank/silo weighing are common applications for the industrial BX222 weight indicator. Two programmable buttons and one touch-free button, configurable for different functions depending on the application, provide ease of use and fast operation. Two memories, each with a capacity of 100 records, enable fast and error-free operation.

For process applications, Ethernet TCP/IP, Profinet, EtherNet/IP, EtherCAT, Powerlink, Profibus, CANopen, CC-Link, CC-Link IE Field, Modbus RTU/TCP industrial communication systems are available, along with along analogue output and digital input/output options.

BAYKON
Industrial Weighing Systems

High-accuracy and high-speed weighing with BAYKON technology and experience

BX222A / BX222D is a new generation weighing indicator designed with Baykon's experience using the latest technology. Its high-speed signal processing capability, ergonomic design, user-friendly menus, and large, bright display with bar graph features that guide the operator provide high accuracy and speed in packaging and checkweighing applications. It integrates very easily into automation systems with its wide range of industrial Ethernet, Fieldbus, analogue output, and digital input/output options.

Common applications
- ✓ Basic weighing scale
- ✓ Control scale
- ✓ Packaging scale
- ✓ Portion scale
- ✓ Process weighing
- ✓ Animal weighing

SmartAPP
This advanced special function enables the operator to easily monitor the application by displaying the weight graphically.

BAYKON ADC Inside
Offers very high resolution and extremely fast measurement.

Operation with two operators
The remote display feature enables two operators to work faster by using the same weighing platform.

Touchless button
Programmable button for zeroing or tare, particularly useful in dirty or hygienic environments.

Programmable buttons
Two function keys can be programmed for functions such as temporary gross display, unit change, scale selection, and high resolution.

Remote display
The BX222 can also be programmed for remote display of a weighing process.

2 memory units with 100-record capacity
- ✓ In control weighing Packaging/portion preparation
- ✓ Numeric tare

Graphical display and buzzer

In applications, such as weight control (Over /Under), portion preparation, and packaging, it prevents eye strain by allowing the operator to view a graphical display instead of weight readings, increasing work speed and accuracy. The audible alarm can be programmed to sound at the desired limit value or each time the limit value is exceeded.

Application Examples

Packaging Scale

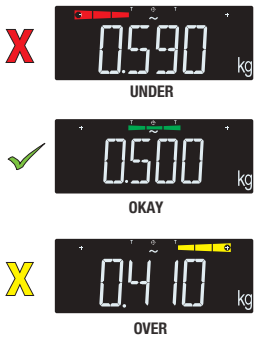
Single Packaging

Multiple Packaging on the Scale

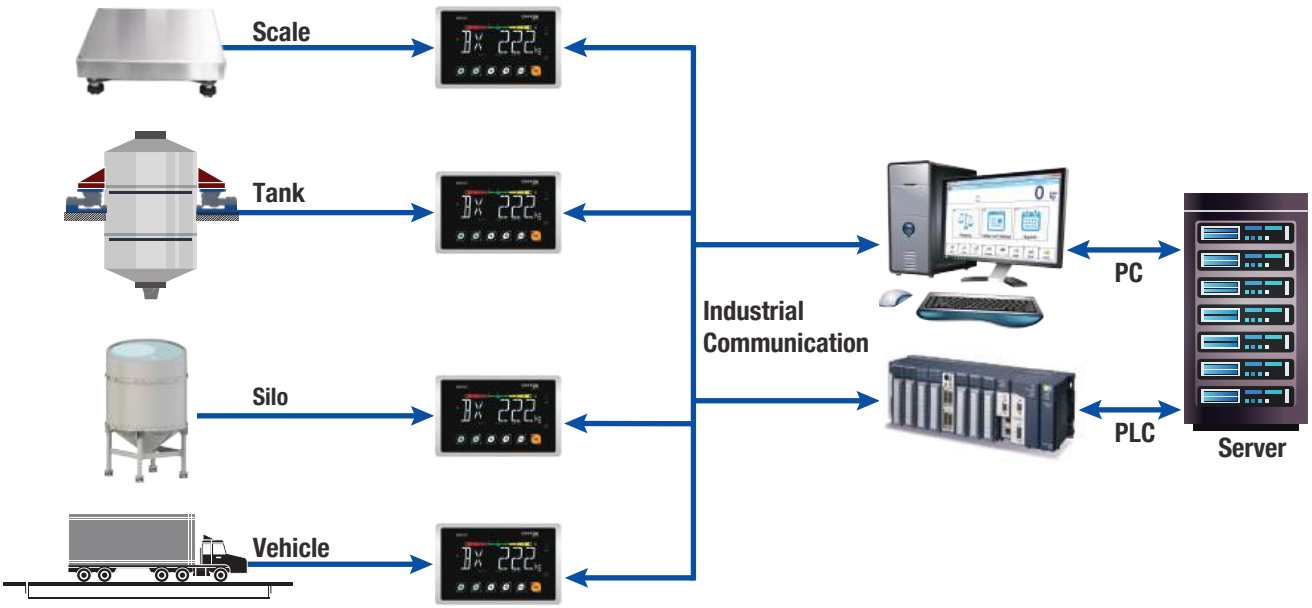
Take away mode
Packaging from bulk container on the scale

Portion Scale

Weight Control Scale



BX222/BX222D Industrial Weighing and Process Control



RS232C · RS 485 · Modbus RTU / TCP · TCP IP (2 Ports) · PROFINET (2 Ports) · PROFINET S2 (2 Ports) · Digital I/O I/O · Analog Output 4-20 mA 0-10V

EtherNet/IP (2 Ports) · EtherCAT (2 Ports) · ETHERNET POWERLINK (Ports) · PROFIBUS · CANopen · CC-Link · CC-Link IE Field

Technical Specifications

Model	BX222A	BX222D
Accuracy class and EU type approval	OIML Class III, single-range, multi-range or multi-interval	
Display	Wide-angle bright display with alphanumeric 6-digit 36mm height	
Display resolution	Commercial use: 10,000 divisions, according to OIMLR76, Industrial use: up to 999,999,	Commercial use: 10,000 divisions, according to OIMLR76, Industrial use: up to 200,000
A/D converter	30-bit Delta-Sigma ADC, up to 1,600 conversions per second	Specified according to the technical specifications of the load cells below. All Baykon digital load cells: BR016D, BR030/32SD, BS063SD, BR200SD, etc. & Flintec RC3D.
Minimum input sensitivity	0.4 µV/d (commercial use), 0.05 µV/d (industrial use)	
Analogue input range	-75 mV ~ +75 mV (bipolar)	
Internal resolution	Up to 1,000,000,000	
Calibration	Calibration with test weight, multi-point calibration, eCAL electronic calibration without test weight, zero adjustment, gain adjustment, calibration with coefficient input, gain adjustment in a filled tank.	
Digital filter	8-step adjustable adaptive filter	
Standard applications	Weighing on any type of scale, weight control weighing (Over / Under), packaging, portioning (zeroing with a touch-free button), dynamic weighing, live animal weighing, mobile weighing applications.	
Application memories	100-record memory for numeric tare, 100-record memory for product limit values of weight control, portioning and packaging,	
Programmable buttons	3 function keys, 1 touchless infrared key	
Remote I/O	Digital inputs and outputs are programmable to be controlled via a Fieldbus as remote inputs and outputs of the PLC. (Refer to Options)	
Serial communication	RS-232 , USB type C, RS-485	
Number of load cells	Up to 8 load cells of 350 ohms or up to 24 load cells of 1200 ohms (minimum 43 ohms)	Maximum 10 digital load cells. (To connect more load cells, please contact BAYKON.)
Load cell connection	With 4 or 6-wires cable. Maximum home run cable cable length is 4000 m/mm².	Maximum 500 m with a 4-wire cable
Load cell excitation	5VDC, max. 125 mA	12VDC, max. 200mA
Operating environment	Commercial use: -10°C to +40°C, 80% relative humidity, non-condensing Industrial use: -15°C to +55°C, 90% relative humidity, non-condensing	
Enclosure and IP rate	Stainless steel, IP68	
Power supply	100–240 VAC, 50–60 Hz, max. 75 mA @230 VAC 12–28 VDC, 200 mA @24 VDC (The current vary depending on the supply voltage, options, and number of load cells.)	
Mounting method	Mounting brackets for tables, walls, and columns are available.	
Options		
Alibi memory	99,999 records	
Analogue output	0-5 VDC, 0-10 VDC, ±5 VDC, ±10 VDC / 4-20mA, 0-20mA	
Digital input/output	Inputs: Optically isolated 3 inputs, 12-28 VDC, 10mA Programmable for various functions, such as zeroing, taring, printing, Fieldbus remote input, tilt sensor input, etc.	
	Outputs: 4 transistor outputs Programmable for various functions, such as set point values, Fieldbus remote output, etc.	
Internal battery	With a 3.5 Ah battery, the operating time with a single load cell is approximately 10 hours. The charging time is 5 hours. With a 7 Ah battery, the operating time with a single load cell is approximately 20 hours.	
Industrial communications	Modbus RTU/TCP, Profinet, Ethernet TCP/IP, EtherNet/IP, EtherCAT, Powerlink, Profibus, CANopen, CC-Link, CC-Link IE Field.	

BAYKON
Industrial Weighing Systems

Tuzla Kimya Sanayicileri O.S.B Organik Cad.
No:31 34953 Tuzla / İstanbul / Türkiye
0 216 593 26 30 0 216 593 26 38
info@baykon.com baykon.com