BX23 / BX23D Weighing Indicator

Fits perfectly to your weighing processes

Main Features
- Stainless steel, IP67 protected for wet, hygienic and harsh areas
- Color selectable LCD display with alphanumeric info line
- Bar graph to follow gross weight capacity
- Key based locking against interfering

High Technology & Performance
- Up to 999 999 display resolution
- Up to 800 conversions per second
- Smart and adaptive filter
- High capacity tank scales supported by eCAL - electronic calibration
- Span adjustment of loaded tanks without emptying

Typical Applications
- Process weighing applications; tank, silo, hopper and conveyor weighing
- Programmable display color
- Livestock and dynamic weighing with strong dynamic weighing algorithm

Integration & Connectivity
- 2 x RS232C, 1 x RS485, 1 x USB are standard
- Profibus, Profinet, CANopen, Ethernet TCP/IP, EtherNet/IP, EtherCAT, CC-Link, Powerlink Modbus RTU / TCP, Analogue outputs and Digital I/O as an option

BX23 & BX23D are low cost weighing terminals; offer high accuracy, and performance with strong connectivity options for all weighing applications. With its IP67 protected stainless steel housing, it provides reliable and safe operation in wet, hygienic and harsh industrial areas.

BX23 & BX23D have strong calibration alternatives including eCAL electronic calibration which is extremely important tool for heavy capacity tank scales and calibration of tanks without emptying.

For connectivity, BX23 & BX23D have 2 x RS232C, 1 x RS485 and 1 x USB as standards; and for optional interfaces they have Analogue output, Ethernet TCP/IP, EtherNet/IP, Profibus, Profinet, Modbus RTU, Modbus TCP, CANopen, EtherCAT, CC-Link, Powerlink and Digital I/O with 4 opto isolated inputs and 5 relay outputs.

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Typical Applications

1. Industrial Scales
With their state of the art features, BX23 & BX23D are very accurate and reliable weighing indicators for industrial scale applications such as bench, floor and truck scales.

2. Industrial Process Weighing Applications
BX23 & BX23D are high tech instruments for usage at tank, silo, hopper, conveyor, and overhead scales.

3. Weighing at Wet, Hygienic and Harsh Environments
BX23 & BX23D are designed to use in wet and harsh industrial environments. Design of their stainless steel housings comply with international hygienic requirements.

4. Livestock and Dynamic Load Weighing
Weighing of dynamic items on the platform (like livestock) is available by BX23 & BX23D. These features usable for weighing at static scales, under vibration of industrial environments.

5. Applications Require Powerful Data Interface and Fieldbus Connection
BX23 & BX23D used at industrial weighing systems; require powerful interfaces like Profibus, Profinet, Ethernet TCP/IP, EtherNet/IP, Modbus RTU / TCP, CANopen, EtherCAT, CC-Link, Powerlink Analogue output, 2 x RS232C and 1x RS485 serial ports.

Technical Specifications

Model	BX23	BX23D
Accuracy class & EU type approval	OIML class III, single range, multi range or multi interval	
Display	Wide angle LCD display with multicolor backlight, 6 digits 22 mm in height weight display and 16 digits 8 mm in height alphanumeric information display	
Display resolution	Up to 999 999 division	Please refer to the following digital load cells Baykon BS063SD, BR200SD, BR030/32SD & Flintec RC3D
A/D convertion	24 bit Delta-Sigma ADC with up to 800 conversion rate	
Minimum input sensitivity	0.4 µV/d (legal metrology), 0.05 µV/d (industrial)	
Analogue input range	-5 mV to +19 mV	
Internal resolution	Up to 16 000 000 counts	
Calibration	Standard calibration tests with test weights eCAL: electronic calibration without test weight, span adjustment of non-empty tanks	
Digital filter	5 step adjustable digital adaptive filter	
Functions	Ticket number, date & time, unit change	
Standard applications	Labelling basic weighing, livestock weighing, interface with PC or PLC over Fieldbus, Ethernet etc.	
Memory	500 item limit values Each item has 5 pcs free programmable set points in the memory	
Digital inputs	Opto isolated 4 inputs programmable for zeroing, taring, print, fieldbus controlled input, etc.	
Digital outputs	Relay contact outputs can be programmable independently to 9 different functions	
Data output	Opto isolated 2 pcs RS232C and RS485 (with Modbus RTU) and USB	
Number of load cells	Up to 8 load cells 350 ohm or 27 load cells 1200 ohm	Up to 24 digital load cells
Load cell connection	Connection with 4 or 6 wires. Cable length maximum 1000 m/mm²	RS485, BLDC Protocol Home Cable max. 300m
Alibi memory	99 999 weighing records	
Operation temperature	-15°C ~ +55°C max. (Operational), -10°C ~ +40°C (Legal metrology)	
Humidity	Max. 90% non-condensing relative humidity legal metrology max. 80 %	
Housing and protection class	Desk top and wall type stainless steel, IP67 protected	
Power supply	100 - 240 VAC, 50/60 Hz or 12 - 28 VDC	
Options		
Scales options	Alibi memory	
Interfaces	Digital 4 inputs / 5 outputs — Ethernet TCP/IP Analogue Output — EtherNet/IP Profibus — EtherCAT Profinet — CC-Link CANopen — Powerlink Modbus RTU/TCP	
Accessories	Column mount kit, Wall mount kit, 2D Wall mount kit	

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