

BX23 Weighing Indicator

The Ideal Indicator for all 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 conversion 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
- Classifying supported by color changing display
- Livestock and dynamic weighing with strong dynamic weighing algorithm



Integration & Connectivity

- Profibus, Profinet, CANopen, Ethernet TCP/IP, EtherNet/IP, Modbus RTU / TCP and Analogue outputs with Digital I/O
- 2 x RS232C, 1 x RS485, 1 x USB are standard
- 9 different type outputs configurable according to application



The BX23 is a cost effective yet powerful and highly accurate weight indicator with incredible connectivity options that will meet all your weighing and process control needs. With an IP67 stainless steel housing it is ideal for reliable and safe use in harsh, wet and hygienic conditions.

With user friendly setup and powerful calibration options including eCAL (Electronic Calibration without the need for test weights) the BX23 is designed for weighing professionals and is perfect for all weighing applications including heavy tank/hopper scales which can be easily calibrated without being emptied.

For connectivity, BX23 has 2 x RS232C and 1 x RS485 as standard; and for optional interfaces it has Analogue output, Ethernet TCP/IP, EtherNet/IP, Profibus, Profinet, Modbus RTU, Modbus TCP, CANopen and Digital I/O as 4 opto isolated inputs and 5 relay outputs.

Typical Applications

1. Industrial Scales

With its state of the art features, BX23 is a very accurate and reliable weighing indicator for industrial scale applications such as bench, floor and truck scales

2. Industrial Process Weighing Applications

BX23 is a high tech instrument for usage at tank, silo, hopper, conveyor, and overhead scales.

3. Weighing at Wet, Hygienic and Harsh Environments

BX23 is designed to use in wet and harsh industrial environments. Design of its stainless steel housing complies with international hygienic requirements.

4. Livestock and Dynamic Load Weighing

Weighing of dynamic items on the platform (like livestock) is available by BX23 This feature is usable for weighing at static scales, under vibration of industrial environments.

5. Applications Require Powerful Data Interface and Fieldbus Connection

BX23 used at industrial weighing systems; require powerful interfaces like Profibus, Profinet, Ethernet TCP/IP, EtherNet/IP, Modbus RTU / TCP, CANopen, Analogue output, 2 x RS232C and 1x RS485 serial ports.



BX23 Technical Specifications

Accuracy class & EU type approval	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
A/D conversion	24 bit Delta-Sigma ADC with up to 800 conversion rate
Minimum input sensitivity	0.4 $\mu\text{V/d}$ (legal metrology), 0.05 $\mu\text{V/d}$ (industrial)
Analogue input range	-10 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	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
Load cell connection	Connection with 4 or 6 wires. Cable length maximum 1000 m/mm ²
Alibi memory	1 000 000 weighing records
Operation temperature	-15°C ~ +55°C Legal metrology -10°C ~ +40°C
Humidity	Max. 90% non-condensing relative humidity legal metrology max. 80 %
Housing and protection class	Stainless steel, IP67 protected
Power supply	100 - 240 VAC, 50/60 Hz or 10 - 26 VDC
Options	
Scales options	Second analogue scale input Alibi memory
Interfaces	Digital 4 inputs / 5 outputs Analogue Output Profibus Profinet CANopen Modbus RTU/TCP Ethernet TCP/IP EtherNet/IP
Accessories	Column mount kit, Wall mount kit, 2D Wall mount kit

(Specifications are subject to change without notice. 01- 12 / 2016)