

BX30 / BX30D Weighing Indicator

Fits perfectly to your weighing processes



Main Features

- Stainless steel front panel, 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 300 000 display resolution
- Up to 1600 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
- Livestock and dynamic weighing with strong dynamic weighing algorithm
- Warning with display color at malfunction



Integration & Connectivity

- Galvanically isolated, RS232C and RS485, RS422
- Ethernet TCP/IP
- Micro USB port
- Profibus, Profinet, CANopen, EtherNet/IP, EtherCAT, CC-Link, Powerlink, Modbus RTU / TCP and Analogue outputs with Digital I/O



Standard Interfaces :

- Ethernet TCP/IP
- USB
- RS-232C
- RS-485
- RS-422

Optional PLC Interfaces :

- Profibus
- Profinet
- Modbus RTU
- Modbus TCP
- EtherNet/IP
- EtherCAT
- CANopen
- CC-Link
- CC-Link IE
- Powerlink
- Analogue output
- Digital I/O

BX30 & BX30D are low cost panel type weighing indicators; offer high accuracy, and performance with strong connectivity options for all weighing applications. With its IP67 protected stainless steel front panel, it provides reliable and safe operation in wet, hygienic and harsh industrial areas.

BX30 & BX30D 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, BX30 & BX30D have RS232C, RS485, RS422, USB and Ethernet TCP/IP as a standard; and Analogue output, 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, are supplied as variants of interfaces.

Typical Applications

1. Industrial Scales

With their state of the art features, BX30 & BX30D are very accurate and reliable weighing indicators for industrial scale applications such as bench, floor and truck scales.

2. Industrial Process Weighing Applications

BX30 & BX30D are high tech instruments for usage at tank, silo, hopper, conveyor, and overhead scales.

3. Weighing at Wet, Hygienic and Harsh Environments

BX30 & BX30D are 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 platforms (like livestock) available by BX30 & BX30D. These features usable for weighing at static scales, under vibration of industrial environments.

5. Applications Require Powerful Data Interface and Fieldbus Connection

BX30 & BX30D 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, Digital I/Os, RS232C, RS485 and RS422 serial ports.



Technical Specifications

Model	BX30	BX30D
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 300 000 divisions	Please refer to the following digital load cells Baykon BS063SD, BR200SD, BR030/32SD & Flintec RC3D
A/D conversion	24 bit Delta-Sigma ADC with up to 1600 conversions rate	
Minimum input sensitivity	0.4 $\mu\text{V/e}$ (legal metrology), 0.05 $\mu\text{V/d}$ (industrial)	
Analogue input range	-5 mV to +19 mV	
Internal resolution	Up to 16 000 000 counts	
Calibration	Standard: With etalon weights via keys or via PC software on serial port eCal: Electronic calibration without etalon weights Fieldbus: Fieldbus commands for zero and span adjustments sCal: Span calibration of non-emptied tanks	
Digital filter	5 step adjustable digital adaptive filter	
Functions	Ticket number, date & time, unit change	
Standard applications	Labelling with Barcode, livestock weighing and free setpoints, basic peak, hold, functional outputs, 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 14 different functions	
Data output	Galvanically isolated RS232C, RS422 and RS485, USB and Ethernet TCP/IP	
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	4 or 6 wire technique. Home cable length 1000 m/mm ² for 6 wire connection	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	IP67 protected stainless steel front panel, aluminium body, stainless steel rear panel	
Power supply	12 - 28 VDC	
Indicator options	Alibi memory, Modbus RTU/TCP	
Interfaces of variants	Digital 4 inputs / 5 outputs	Profinet
	Analogue Output (0-10V, 4-20mA)	CANopen
	EtherNet/IP	CC-Link
	EtherCAT	Powerlink
	Profibus	
Dimensions (H x W x D)	108 x 205 x 112,5 mm,	Panel mount cutout dimensions (H x W): 92 x 186 mm
Gross weight	1,75 kg	

Specifications are subject to change without notice, 02-10 / 2018