BX24 / BX24D Weighing Indicator

Power & performance for weighing applications

Main Features
- Stainless steel, IP67 protected for wet, hygienic and harsh areas
- Color changing display, SmartAPP 16 digit alphanumeric info line,
- ID1, ID2, PT, item limit values, APW memories; each 500 items record
- Automatic memory linkage to IDs

High Technology & Performance
- High resolution scales up to 999 999 display resolution
- Up to 800 conversions per second
- Application based SmartAPP
- Changing color for prompting
- High capacity tank scales supported by eCAL - electronic calibration

Typical Applications
- Weighing and data collection
- Customized labelling with barcode
- Counting by sample & APW memory
- Livestock and dynamic weighing with strong filtering algorithm
- Checkweighing, classifying & filling
- Specific tare entry requirement

Interfaces & Communication
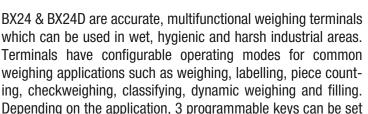- Printing via key, digital input and serial port
- Continuous data output
- BSI command set for master slave communication
- Galvanically isolated, RS485 and 2x RS232 ports are standard
- Mini USB port

BX24 & BX24D are accurate, multifunctional weighing terminals which can be used in wet, hygienic and harsh industrial areas. Terminals have configurable operating modes for common weighing applications such as weighing, labelling, piece counting, checkweighing, classifying, dynamic weighing and filling. Depending on the application, 3 programmable keys can be set to related functions for quick and easy operation.

Instruments have 6 memories; ID1 & ID2, preset tare, APW and item limit values; each have 500 records capacity. IDs can be linked to other memory records for fast, easy and reliable operation; when an ID is selected, depending on the operation mode item limit values, specific tare or APW values comes automatically.

BX24 & BX24D offer direct connection to remote display, PC and PLCs via various data protocols such as demand, continuous form and BSI command set.

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Typical Applications

1. Labeling & Data Collecting
BX24 & BX24D can print different type of standard tickets including totalizing and customized ticket with barcode.

2. Piece Counting
Counting can be done by sampling or average piece weight taken from APW manual. 500 item memory capacity for APW.

3. Automatic / Manual Checkweighing
The weight or the quantity of the items in the package is checked. 500 item memory for limits set.

4. Automatic / Manual Classifying
Products can be classified according to the weight or the quantity of item in the package. 500 item memory for limits set.

5. Automatic / Manual Gravimetric Filling
Automatic / manual filling can be executed in gross mode or in net mode. 500 item memory for limits set.

6. Dynamic and Livestock Weighing
Weighing of dynamic items such as livestock is available by BX24 & BX24D. This feature is also usable for weighing at static scales under vibration of industrial environments.

Technical Specifications

Model	BX24	BX24D
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
A/D conversion	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	Baykon BS063SD, BR200SD,
Internal resolution	Up to 16 000 000 counts	BR030/32SD & Flintec RC3D
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 and 5 programmable digital dynamic filter	
Functions	2 x ID data,ticket number,date & time,total indication, ID1 & ID2 header definition as Customer,Material,Quality,Color,etc.	
Standard applications	Labelling, piece counting, totalization of the sequential weighing, totalization of the additive items, livestock weighing, checkweighing, classifying, filling	
Memory	ID1 and ID2 memories, specific tare memory, item limit values memory for basic weighing, filling, classifying and check weighing, average weight of items memory for piece counting. Each memory has 500 record capacity	
SD card	SD card slot for different applications	
Programmable keys	3 pieces programmable function keys	
Digital inputs	Opto isolated 4 inputs programmable for zeroing, taring, print, fieldbus controlled input, etc. Inputs are set automatically to certain functions at checkweighing, classifying, filling etc.	
Digital outputs	Relay contact outputs are programmable as cut off, fieldbus controlled outputs	
Data output	Galvanically isolated 2 pcs RS232C, RS485 serial ports and mini 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		
Scale options	Digital 4 inputs / 5 outputs, Analogue output, Alibi memory	
Accessories	Column mount kit, Wall mount kit, 2D Wall mount kit	

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