BX24 Weighing Terminal

Power & performance for weighing applications

Main Features
- Stainless steel, IP67 protected for wet, hygienic and harsh areas
- Color changing display, SmartBar 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 conversion per second
- Application based smart bars
- 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
- 2 opto isolated RS232C and RS485 serial ports are standard
- Mini USB port

BX24 is an accurate, multifunctional weighing terminal which can be used in wet, hygienic and harsh industrial areas. The terminal has 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.

The instrument has 6 memories; ID1 & ID2, preset tare, APW and item limit values; each has 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 offers direct connection to remote display, PC and PLCs via various data protocols such as demand, continuous form and BSI command set.

BAYKON
Industrial Weighing Systems

Typical Applications

1. Labeling & Data Collecting
BX24 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. This feature is also usable for weighing at static scales under vibration of industrial environments.

BX24 Technical Specifications

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
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
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 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	Opto 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
Load cell connection	Connection with 4 or 6 wires. Cable length maximum 1000 m/mm²
Alibi memory	1 000 000 weighing records
Operation temperature	-15°C ~ +55°C . Legal metrology -10°C ~ +40°
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

(Specifications are subject to change without notice. 03- 08 / 2017)