BX30 Plus / BX30D Plus

Weighing processes terminals

Main Features
- IP67 protected front panel for wet and harsh areas
- Color changing display, SmartAPP & 16 digit alphanumeric info line
- User programmable 3 keys
- On board Ethernet TCP/IP

High Technology & Performance
- Up to 300 000 display resolution
- Up to 1600 conversions per second
- Application based SmartBars
- Changing color for prompting
- High capacity tank scales supported by eCAL - electronic calibration & span correction of non-empty tanks

Typical Applications
- Weighing and data collection
- Customized labelling with barcode
- Classification, checkweighing, filling and peak hold
- Livestock and dynamic weighing with strong filters and algorithm

4 Memories Each With 500 Items
- 2 pcs ID1 & ID2 identification data
- Preset tare to enter specific tare
- Limit values memory for weighing
- Item limits for check weighing and for classifying of packages
- Automatic memory linkage to IDs

Integration & Connectivity
- Profibus, Profinet, CANopen, Ethernet TCP/IP, EtherNet/IP, EtherCAT, CC-Link, Powerlink, Modbus RTU, Modbus TCP, Analogue output and Digital I/Os
- Galvanically isolated, RS232C and RS485, RS422 serial ports
- Micro USB port
- Ethernet TCP/IP

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 Plus & BX30D Plus are high accurate, multifunctional weighing terminals which are used in wet, hygienic and harsh industrial areas.

This weighing indicator can be programmable for weighing, labelling, checkweighing, classifying, filling, peak hold and dynamic weighing applications. Three user programmable keys can be set for user applications to provide practical and error free operation. The instrument has 4 pcs memories; ID1, ID2, preset tare, item limit values; each have 500 records capacity.

BX30 Plus & BX30D Plus have important features for process weighing; strong calibration alternatives including electronic calibration (eCAL) and various integration interfaces with PC or PLC via RS232C, RS485, RS422, USB, Ethernet TCP/IP as a standard. Fieldbuses such as Profibus, Profinet, CANopen, EtherCAT, CC-Link, Powerlink, Modbus RTU, Modbus TCP, EtherNet/IP, Analogue output, Digital I/O are optional.

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Typical Applications

1. Industrial Process Weighing Applications
Strong calibration options and various integration features including Fieldbus interfaces, provides perfect performance for tank, mixer, conveyor scales.

2. Labelling & Data Collecting
BX30 Plus & BX30D Plus can print different type of standard tickets including totalizing and customized tickets with barcode.

3. Automatic / Manual Checkweighing
The weight or the quantity of the items in the package on the scale are controlled. 500 item memory for sets of limits.
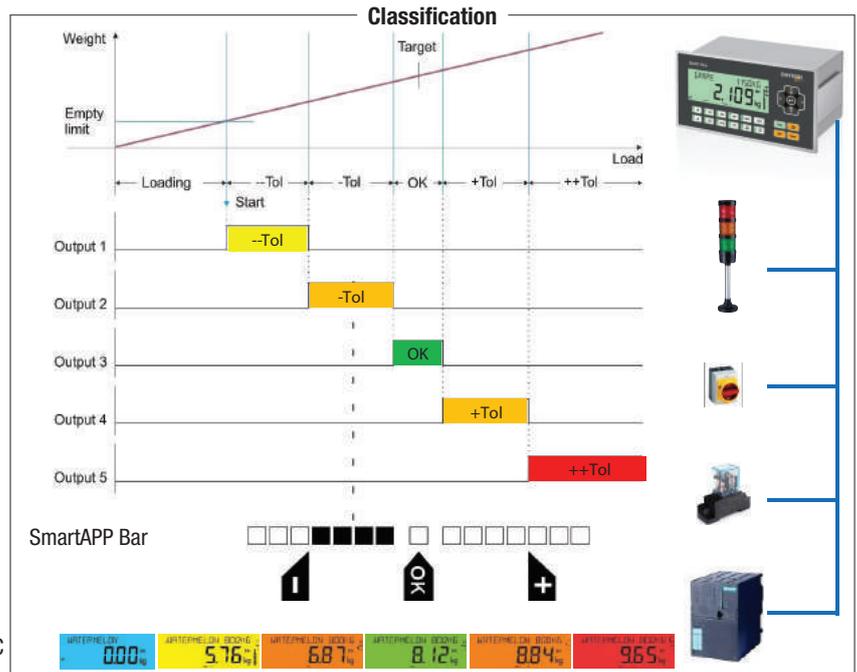
4. Automatic / Manual Classifying
Products can be classified according to the weight or quantity of item in the package. 500 item memory for sets of limits.

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

6. Peak Hold
Up to 10 peak force of the item can be detected during tension or compression test. Test result is displayed and transmitted to PC or printer. 500 item memory for testing different materials.

Technical Specifications

Model	BX30 Plus	BX30D Plus
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	Please refer to the following digital load cells
A/D conversion	24 bit Delta-Sigma ADC with up to 1600 conversion rate	
Minimum input sensitivity	0.4 µV/e (legal metrology), 0.05 µV/d (industrial)	Baykon BS063SD, BR200SD, BR030/32SD & Flintec RC3D
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 and 5 programmable digital dynamic filter	
Functions	2 x ID data,ticket number,date & time,total indication, Header definitions for IDs as customer, material, quality, color...etc.	
Standard applications	Labelling, checkweighing, classifying, filling, peak hold, totalization of the sequential weighing, totalization of the additive items, livestock weighing	
Memory	ID1 and ID2 memories, specific tare memory, item limit values memory. Each memory record size is 500 items	
SD card	SD card slot for different applications	
Programmable keys	3 function keys	
Digital inputs	Galvanically isolated 4 inputs programmable for zeroing, taring, print, Fieldbus controlled remote input, etc. Inputs are set automatically to certain functions at checkweighing, classifying, filling, peak hold.	
Digital outputs	Relay contact outputs can be programmable independently to 14 different functions	
Data output	Opto isolated RS232C, RS422 and RS485, USB and Ethernet TCP/IP	
Interfaces of variants	Profibus, Profinet, CANopen, Modbus TCP, Ethernet TCP/IP, EtherNet/IP, EtherCAT, CC-Link, Powerlink	
Number of load cells	Up to 8 load cells of 350 ohm or 26 load cells of 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
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 %	
Alibi memory	99 999 weighing records	
Housing and protection class	Stainless steel IP67 protected front panel, aluminium body, stainles steel rear panel	
Power supply	12 - 28 VDC	
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	

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