

BX30 Plus Weighing Indicator

For weighing processes and applications

Phoenix
Scales Limited



Main Features

- IP67 protected front panel for wet and harsh areas
- Color changing display, SmartBar & 16 digit alphanumeric info line
- User programmable keys
- Data entry via barcode reader



High Technology & Performance

- Up to 300 000 display resolution
- Up to 800 conversion 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 with Digital I/Os
- Opto isolated RS232C, RS422 and RS485 serial ports
- Mini USB port
- Ethernet TCP/IP



- RS-232C • RS-485 • RS-422 • USB • Ethernet TCP/IP • Profibus
- Profinet • CANopen • EtherCAT • CC-Link • Powerlink • Modbus RTU
- Modbus TCP • EtherNet/IP • Analogue output, • Parallel I/Os.



The BX30 PLUS is a highly accurate, multifunctional weighing terminal which is ideal for use in wet, hygienic and harsh industrial environments.

This professional weighing terminal can be programmed for weighing, labelling, checkweighing, classifying, filling, peak hold and dynamic weighing applications. Three user programmable keys can be set for the customers applications to provide a practical and error free operation. The instrument has 4 programme memories; ID1, ID2, preset tare, item limit values; each with a capacity of 500 records..

The BX30 Plus is specifically designed for process weighing and offers multiple calibration options including electronic calibration (eCal). Various integration interfaces for PC or PLC are available including RS232C, RS485, RS422, USB, Ethernet TCP/IP, and Field-buses including Profibus, Profinet, CANopen, EtherCAT, CC-Link, Powerlink, Modbus RTU, Modbus TCP, Ethernet/IP Analogue output, Parallel I/Os.

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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 can print different types of standard tickets including totalizing and customized tickets with barcode.

3. Automatic / Manual Checkweighing

The weight or the quantity of the items on the scale are controlled. 500 item memory

4. Automatic / Manual Classifying

Products can be classified according to the weight or quantity. 500 item memory

5. Automatic / Manual Gravimetric Filling

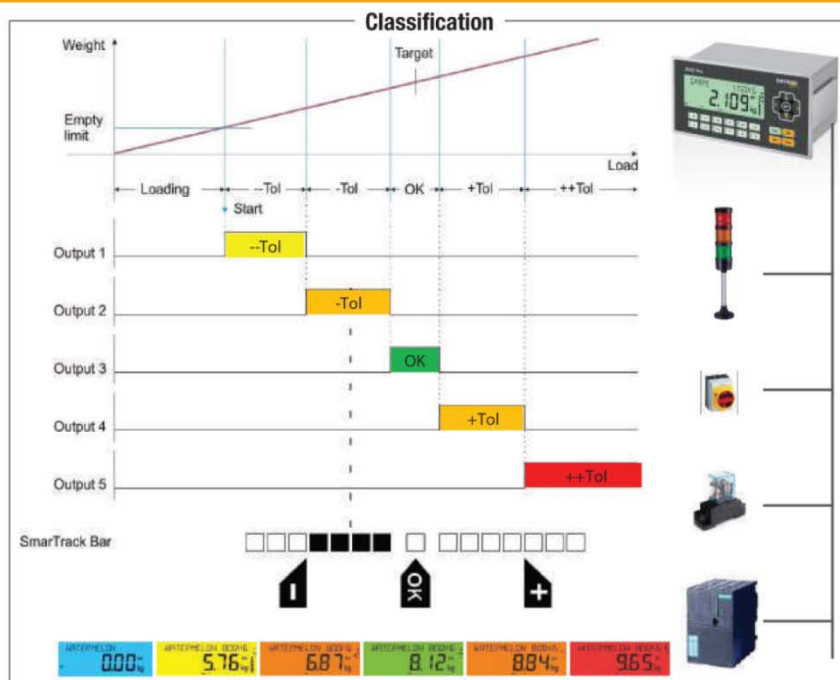
Automatic / manual filling can be executed in gross mode or in net mode. 500 item memory

6. Peak hold

Up to 10 peak force can be detected during tension or compression test. Test result transmitted to PC or printer. 500 item memory for testing different materials.

7. Data Entry Via Barcode, RFID Reader

Direct connection of barcode reader or RFID reader to enter IDs, PT.



BX30 Plus 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
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	-5 mV to +19 mV
Internal resolution	Up to 16 000 000 counts
Calibration	Standard calibration test 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 Header definitions for IDs as customer, material, quality, color...etc.
Standard applications	Labelling, piece counting, checkweighing, classifying, filling, totalization of the sequential weighing, totalization of the additive items, livestock weighing
Memory	ID1 and ID2 memories, specific tare memory, item limit values memory for basic weighing, filling classifying and checkweighing, average weight of items memory for piece counting. Memory record size is 500 items
SD card	SD card slot for different applications
Programmable keys	3 function keys and 2 touch free 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 output
Data output	Opto isolated 2 pcs RS232C and RS485 (with Modbus RTU), Ethernet TCP/IP and USB
Number of load cells	Up to 8 load cells of 350 ohm or 27 load cells of 1200 ohm
Load cell connection	Connection with 4 or 6 wires. Cable length maximum 1000 m/mm ²
Operation temperature	Between -15°C ~ +55°C max. Legal metrology -10°C ~ +40°C
Humidity	Max. 90 % non condensing relative humidity. Legal metrology max. 80 %
Alibi memory	1 000 000 weighing records
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	Second analogue scale input, Alibi memory
Interfaces	Digital 4 inputs / 5 outputs, Analogue output, Profibus, Profinet, CANopen, Modbus TCP, Ethernet TCP/IP, EtherNet/IP, EtherCAT, CC-Link, Powerlink
Accessories	Column mount kit, Wall mount kit, 2D Wall mount kit

(Specifications are subject to change without notice. 01-04 / 2018)