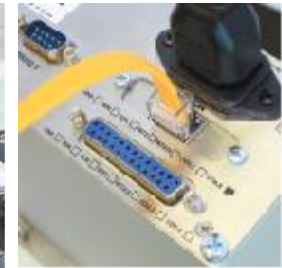
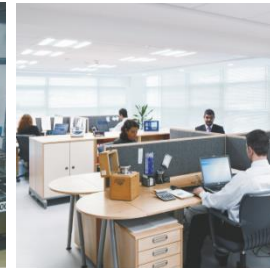
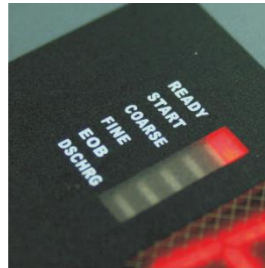


BX30 Plus Weighing Terminal



BX30 Plus Weighing Terminal

BAYKON
Industrial Weighing Systems

New Advanced Weighing Indicator with Analogue or Digital Load Cell
for Process Control & Force Measurement



BX30 Plus Weighing Terminal

BAYKON
Industrial Weighing Systems

Industrial Weighing Applications

- Basic Weighing
- Labelling & Data Collecting
- Dynamic (Livestock) weighing
- Mobile scale indicator with tilt switch
- Checkweighing
- Classifying
- Filling
- Peak Hold
- Totalization



BX30 Plus Weighing Terminal

Introduction

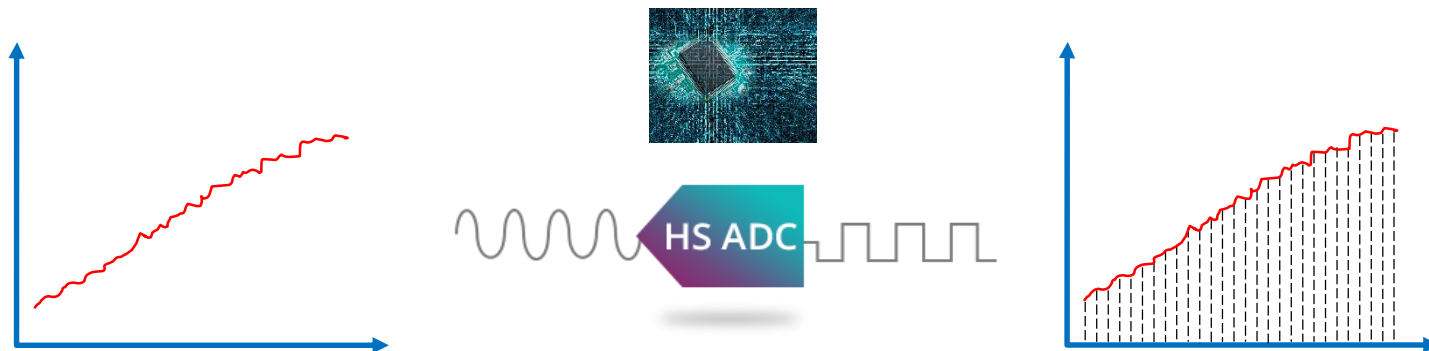
- Well equipped for both transactional and process weighing applications.
- Cutting-edge technology for fast and precise operations.
- High speed, high accuracy, powerful interfacing and excellent durability
- Easy to operate with user friendly HMI.
- OIML Class III 10000 divisions approval for single range, up to 3x multi range and 3x multi interval.
- Up to 300 000 division for industrial application
- BX30D Plus variant model for **Digital Load Cell**
- IP67 protected front panel, aluminum body and stainless steel rear panel
- Suitable for use in wet, hygienic and harsh industrial environments
- Standard interfaces and fieldbus interfaces for integration with PLCs and SCADA systems.
- Programmable digital I/O's for control of external appliances and integration into production processes.
- Analog output
- Alibi memory, metrology info, history logs and hardware tests for auditable quality records.



BX30 Plus Weighing Terminal

Overview: Technology

A/D converter type	24 bit Delta-Sigma ratio metric with integral analog and digital filters
Conversion rate	Up to 1600 measurement values per second
Minimum input sensitivity	0.4 $\mu\text{V/d}$ (legal metrology), 0.05 $\mu\text{V/d}$ (industrial)
Analogue input range	-19 mV to +19 mV
Internal resolution	Up to 16 000 000 counts




At 1600 Hz, industries fastest A/D convertor, fast enough to catch the most rapid changes.



BX30 Plus Weighing Terminal

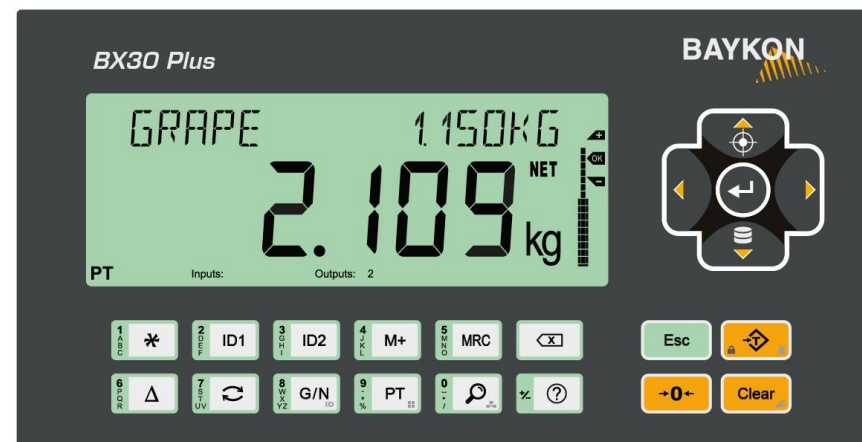
Overview: Weighing Features

➤ Zeroing

- Zero key 
- Auto zero at power on
- Automatic zero point correction
- Zeroing via serial ports and digital input

➤ Taring

- Tare key 
- Additive Tare (The scale range is not changed after taring.)
- Auto tare
- Preset Tare key (PT) : 
For entering tare with numeric keys
- PT memory: 500 tare values can be saved
- Taring via serial ports and digital input
- Saving tare at power off
- Auto and manual tare clear



➤ Temporary gross weight indication 

➤ High resolution displaying (x10) 

➤ Unit change 

Overview: Weighing Features

- Dynamic weighing
- Totalization
 - Horizontal totalization
 - Vertical totalization
- Grand total
- Tilt switch input for level detection
- 5 step programmable digital adaptive filter
- Programmable dynamic filter
- Load cell connection:
 - Analog LC: Up to 8 LCs of 350 ohm or 24 LCs of 1100 ohm
 - Digital LC: Up to 24 digital load cells
- 4 memories having 500 records each
- Printing & data transfer with
 - Ticket number
 - Date & time
 - Header and footer
- eCAL; electronic calibration without test weight
- Automatic Zero adjustment
- Automatic Span (gain) adjustment
- Automatic Span adjustment of non empty tanks, hoppers, silos
- Multi-point calibration
- Gravity adjustment
- Operator warning for the next verification
- SD card slot for Alibi memory and customized applications
- Built-in diagnostic utility to test keyboard, serial ports , display, digital I/O, load cell signal, printer

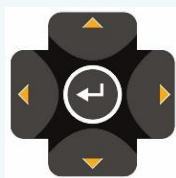
BX30 Plus Weighing Terminal

Overview: Operator Interface (HMI)

- Multicolor wide angle LCD display with
 - 6 digits, 22 mm high weight display
 - 16 digits, 8 mm high alphanumeric info display
- Selectable backlight color
- Clearly laid out alphanumeric keypad
- Interactive prompting via info line
- Programmable function keys



- Navigation keys for scrolling through the programming menu easily
- Help key to learn functions of programmable keys
- Two ID keys



- SmartAPP feature to guide and warn the operator with
 - Acoustic signal
 - Bar graph
 - Multicolor display
- Key lock
- 3 different passwords: Key lock, user, service
- 6 different user-languages: English, French, German, Italian, Spanish and Turkish

BX30 Plus Weighing Terminal

SmartAPP features

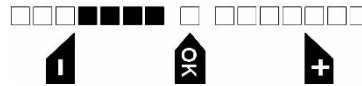
- SmartAPP features enhance operator interaction by helping him/her to follow the weighing process easily and effectively with the following means in checkweighing, classifying, filling and peak holding applications.

- Audio Signal : 

- SmartAPP Bar : The graphical indication of different weighing applications.



Checkweighing



Classifying



Filling

- Multi Color Display: Using different display color for different steps of the weighing process avoids errors.



BX30 Plus Weighing Terminal

Memories

- BX30 Plus has 4 different memories with 500 items capacity each:
 - ID1 and ID2: Identification Data memories
 - PT: Preset Tare memory
 - SET memory: For set points of weighing application
- Each items of SET memory can have 5 or 6 limit values depending on the selected application.
- Set points values can be entered by using alphanumeric keys or recalled from SET memory.
- Linkage of application memory records to ID1 or ID2 memory.

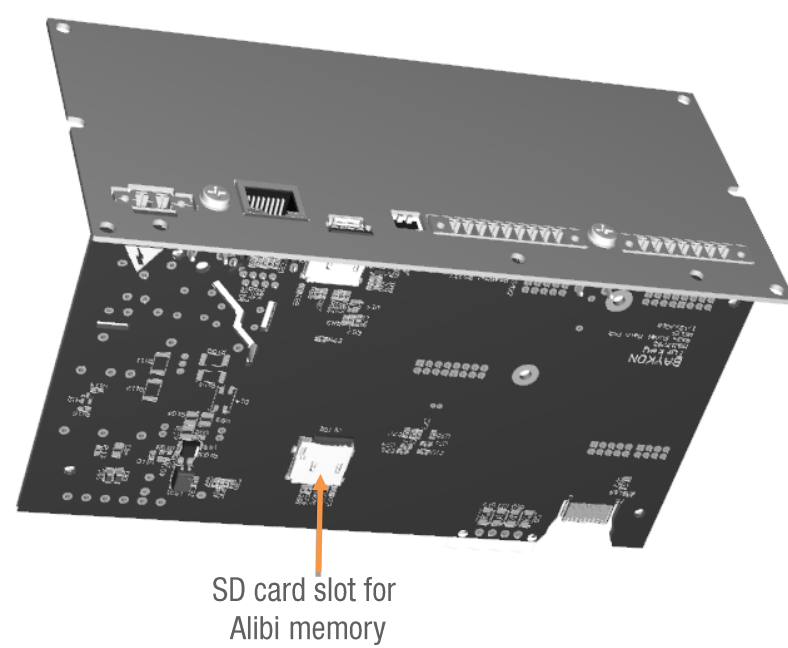
ID1 MEMORY		ID2 MEMORY		PT MEMORY		SET MEMORY FOR FILLING						
				Code	Value	Code	Target	Fine	Course	Tare min	Tare max	Empty
OPERATOR	MATERIAL											
1 J.SMITH	1 Paint 1	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....
2	2 Paint 2	2	.....	2	.....	2	.....	.....	.....	.....	.....	.....
3	3	3	.....	3	.....	3	.....	.....	.....	.....	.....	.....
4	4	4	.....	4	.....	4	.....	.....	.....	.....	.....	.....
..
..
..
..
120 J.WHITE	120 Paint 120	120	165	120	1000	20	100	150	190	100		
..
..
500	500	500	.....	500	.....	500	.....	.....	.....	.....	.....	.....

Memory Linkage

BX30 Plus Weighing Terminal

Alibi Memory

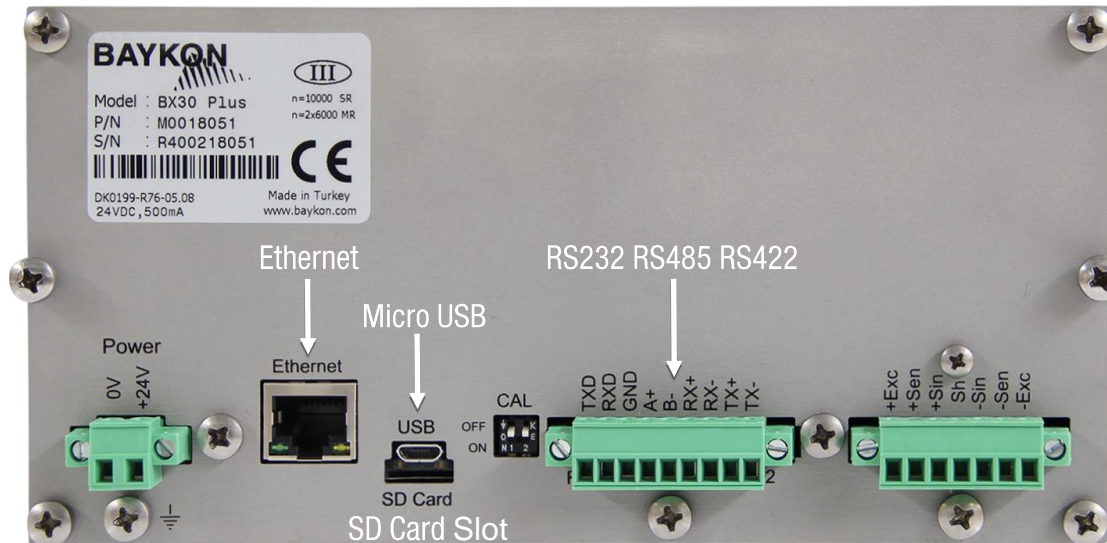
- Weighing data of last 99 999 transactions are saved into the SD card.
 - Loop memory structure (FIFO concept)
 - Weighing data is saved with date and time after printout or transferring the stable weight.
 - Alibi records can also be transferred to the following ports in addition to printout:
 - RS232C
 - USB
 - Ethernet TCP/IP
 - A record in Alibi memory can be searched based on the following parameters:

▪ Alibi number	▪ Gross
▪ Date	▪ Tare
▪ Net value	▪ Consecutive value
- 

SD card slot for Alibi memory
- Alibi record number is printed on the label.
 - Alibi SD card is required for recording Alibi data.

BX30 Plus Weighing Terminal

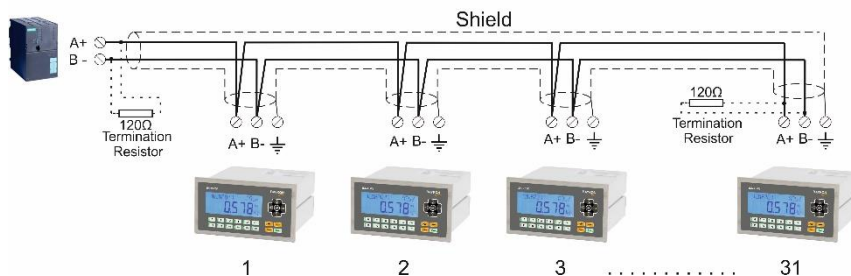
Standard on board interfaces



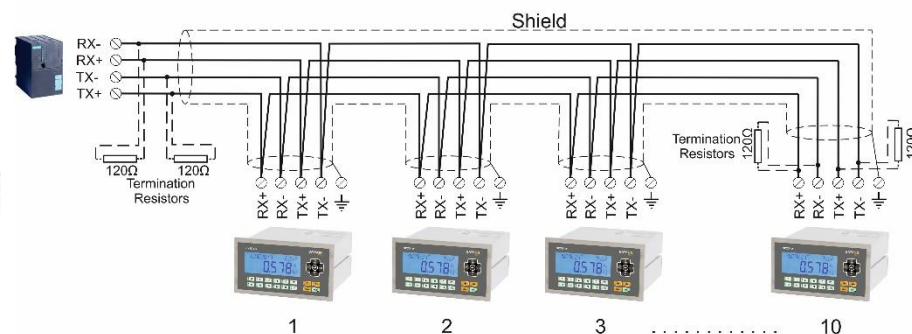
- RS232C (Galvanically isolated)
- RS485 (Galvanically isolated)
- RS422
- Ethernet TCP/IP
- Micro USB (For connection to PC)
- SD card slot (for uploading/downloading the backup files of the instrument.)

BX30 Plus Weighing Terminal

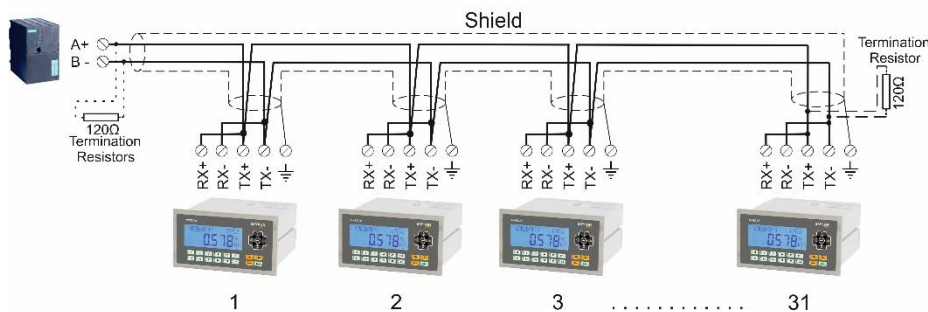
RS 232, RS 422 and RS 485 Connections



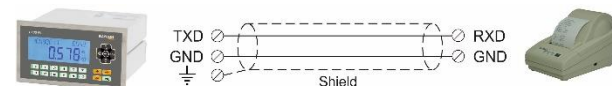
RS 485 Multi instrument connection with PLC



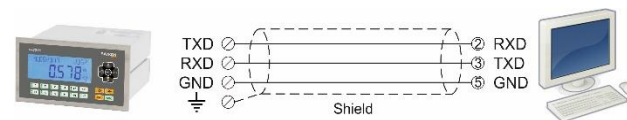
RS 422 Multi instrument connection with PLC



Configuration of RS 422 to use it as a second RS 485 port



2 wire RS 232C connection with a printer or PC



3 wire RS 232C connection with a PC or PLC

BX30 Plus Weighing Terminal

Data formats & protocols

	RS232/RS485	RS422	Ethernet TCP/IP	USB*
Continuous	✓	✓	✓	✓
Fast continuous	✓	✓	✓	✓
Printer (ASCII or EPL)	✓	✓	✓	
Data transfer** to PC or PLC	✓	✓	✓	
BSI*** protocol to interface with PC and PLC	✓	✓	✓	✓
Modbus TCP			✓	
Modbus RTU	✓	✓		

* USB 2.0

** Last printed data is saved and can be transferred to a PC/PLC or ERP system.

*** BSI: **B**aykon **S**erial **I**nterface provides communication utility with PC/PLC if variant model of BX30 Plus with field bus interface is not selected.

BX30 Plus Weighing Terminal

Peripherals that can be connected



BX30 Plus Weighing Terminal

Interfaces: Field Bus, Digital I/Os and Analogue output

- BX30 Plus and BX30D Plus variants offer various additional options including
 - Key field-bus in the market of process control
 - Analog output and digital input /output configurations
- The digital I/Os can be controlled by a PLC as a Remote I/O reducing the need for separate PLC IO modules and additional cabling.
- The ultra-fast analogue output has very high resolution and long term stability.

Supported Field Buses

- Profibus



- EtherCAT



- Profinet



- CC-Link



- CANopen



- Powerlink



- EtherNet/IP



- Modbus RTU / TCP



BX30 Plus Weighing Terminal

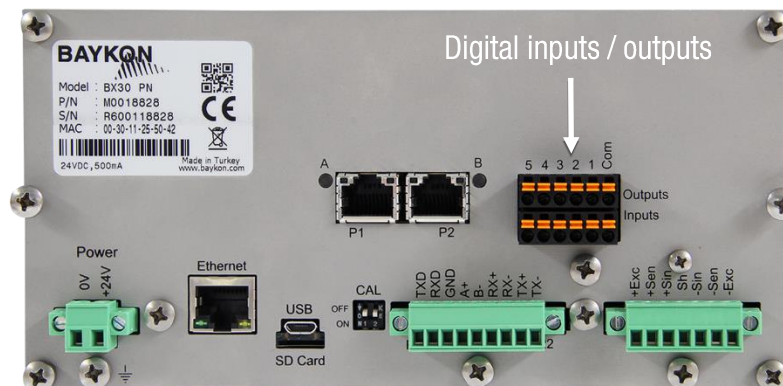
Digital Inputs & Outputs and Analog Output

Digital Inputs & Outputs

- 4 Digital Inputs to control BX30(D) Plus
 - Optoisolated, 12 to 28 VDC, 10mA.
 - Programmable for Zeroing, Taring, Clear, Print, Key lock, Dynamic Start – Reset and Remote input of PLC over BSI or Modbus.
 - Inputs are set automatically to certain functions at checkweighing, classifying, filling and peak hold.
- 5 Digital Outputs for process control and alarming
 - 5 free relays contacts, 250 VAC or 30 VDC, 0.2A.
 - Programmable for Setpoint 1-5, Zero Range, Stable, Error and Remote output of PLC over BSI or Modbus.
 - Outputs are set automatically to certain functions at checkweighing, classifying, filling.

Analogue Output

- Analogue Output types;
 - 4-20 mA, 0-20 mA, 0-5 V, 0-10 V
- 60 000 steps between minimum and maximum output.
- Analogue output as gross or indicated weight
- Adjustable analogue output limits
- Automatic adjustment of analogue output



BX30 Plus Weighing Terminal

BX30 Plus and BX30D Plus variant models

Variant Name Interface	BX30 Plus BX30D Plus	BX30 Plus IO BX30D Plus IO	BX30 Plus AN BX30D Plus AN	BX30 Plus PB BX30D Plus PB	BX30 Plus CO BX30D Plus CO	BX30 Plus CC BX30D Plus CC	BX30 Plus PN BX30D Plus PN	BX30 Plus EI BX30D Plus EI	BX30 Plus EC BX30D Plus EC	BX30 Plus PL BX30D Plus PL	BX30 Plus IE BX30D Plus IE
RS232C	•	•	•	•	•	•	•	•	•	•	•
RS485	•	•	•	•	•	•	•	•	•	•	•
RS 422	•	•	•	•	•	•	•	•	•	•	•
USB	•	•	•	•	•	•	•	•	•	•	•
Ethernet TCP/IP	•	•	•	•	•	•	•	•	•	•	•
Digital I/O		•	•	•	•	•	•	•	•	•	•
Analog output			•								
Profibus DPV1				•							
CANopen					•						
CC-Link						•					
Profinet							•				
EtherNet/IP								•			
EtherCAT									•		
Powerlink										•	
CC-Link IE											•
Modbus RTU	o	o	o	o	o	o	o	o	o	o	o
Modbus TCP	o	o	o	o	o	o	o	o	o	o	o

o: Optional.

All variants can utilize Modbus RTU and Modbus TCP provided that Modbus SD pack is installed.

Digital Inputs & Outputs

- Digital inputs are used to control the instrument.
- Digital outputs are used to control gates, valves etc. or to produce alarm at basic weighing and SmartAPP applications.
- Digital inputs and outputs are automatically set to the configuration of selected SmartAPP application.
- Functions of some keys such as zeroing, taring, clear etc. can be executed by digital Inputs instead of pressing the related key.
- The digital inputs and outputs are programmable to be used as a Remote IO of PLC over the fieldbus. This feature eliminates additional PLC need for Remote IO only. Remote outputs of PLC can be used for level control , conveyor control, solenoid control, alarm etc.

BX30 Plus Weighing Terminal

Digital I/Os with SET points functions of different applications

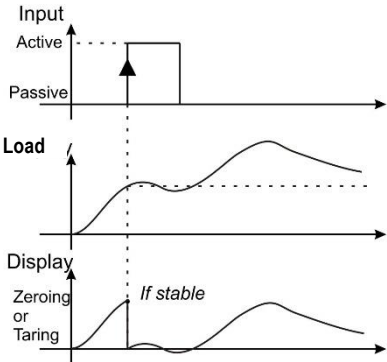
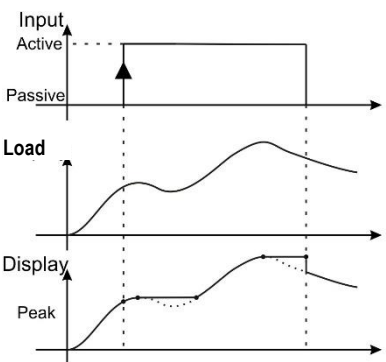
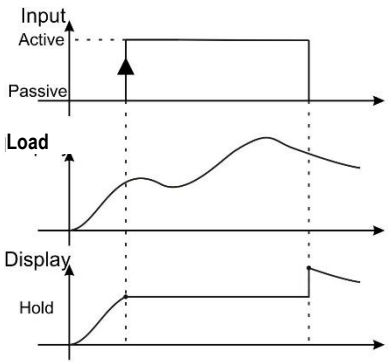
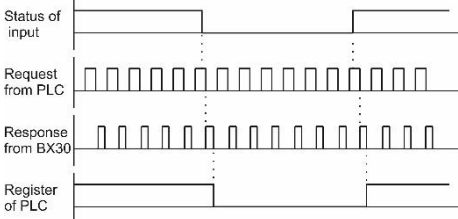
In / Out	Basic Weighing	Classifying	Checkweighing	Filling	Peak Hold
Input 1	Z,T,CLR,PRNT,KL,DS,DR,PH, H,FB,BSI	Start	Start	Start	Start
Input 2	Z,T,CLR,PRNT,KL,DS,DR,PH, H,FB,BSI	Reset	Reset	Reset	Reset
Input 3	Z,T,CLR,PRNT,KL,DS,DR,PH, H,FB,BSI	Z,T,CLR,PRNT,KL,DS,DR,PH, H,FB,BSI	Z,T,CLR,PRNT,KL,DS,DR,PH, H,FB,BSI	Z,T,CLR,PRNT,KL,DS,DR,PH, H,FB,BSI	Z,T,CLR,PRNT,KL,DS,DR,PH, H,FB,BSI
Input 4	Z,T,CLR,PRNT,KL,DS,DR,PH, H,FB,BSI	Z,T,CLR,PRNT,KL,DS,DR,PH, H,FB,BSI	Z,T,CLR,PRNT,KL,DS,DR,PH, H,FB,BSI	Z,T,CLR,PRNT,KL,DS,DR,PH, H,FB,BSI	Z,T,CLR,PRNT,KL,DS,DR,PH, H,FB,BSI
Output 1	Setpoints, ZR,S,R,E, FB,BSI	— — Tolerance	— Tolerance	Ready	Ready
Output 2	Setpoints, ZR,S,R,E, FB,BSI	— Tolerance	OK	Fine	Run
Output 3	Setpoints, ZR,S,R,E, FB,BSI	OK	+ Tolerance	Coarse	End of testing
Output 4	Setpoints, ZR,S,R,E, FB,BSI	+ Tolerance	Setpoints, ZR,S,R,E, FB,BSI	End of Filling	Alarm
Output 5	Setpoints, ZR,S,R,E, FB,BSI	+ + Tolerance	Setpoints, ZR,S,R,E, FB,BSI	Setpoints, ZR,S,R,E, FB,BSI	Setpoints, ZR,S,R,E, FB,BSI

Inputs : Zeroing, Taring, Clear, Print, Key lock, Dynamic Start and Reset, Peak Hold and Hold (at basic weighing) ,remote input over Fieldbus or BSI command

Outputs: Various Set Points, Zero Range (indicated and gross weight) , Stable, Run, Error, remote output over Fieldbus or BSI command

BX30 Plus Weighing Terminal

Digital Inputs

<p>Key functions</p> <p>such as zeroing, taring, clear, print, key lock, dynamic start and reset, peak hold and hold can be executed via digital inputs.</p>	<p>Taring via digital input</p> 	<p>Basic Peak</p> <p>The instrument follows the peaks of the loading while the input signal is active.</p> <p>This feature is for basic weighing mode not for SmartAPP peak hold.</p> <p>It is not for legal usage.</p>	<p>Basic Peak</p> 
<p>Hold</p> <p>The instrument holds the weight value while the input signal is active in order to help the operator to read it easily.</p> <p>It is not for legal usage.</p>	<p>Hold</p> 	<p>Remote Input over Fieldbus or BSI</p> <p>The digital input(s) can be monitored by PLC as a Remote Input if the instrument is equipped with any fieldbus option.</p> <p>This usage is independent from the weighing process of the instrument.</p>	<p>Remote Input over Fieldbus or BSI</p> 

BX30 Plus Weighing Terminal

Digital Output: S AIN Free setpoint of absolute indicated weight

<p>SP1 =100 Kg SP1 LOW =100 Kg SP1 HIGH =150 Kg</p>		<p>SP1 =100 Kg SP1 LOW =100 Kg SP1 HIGH =150 Kg</p>	
<p>BAS-HI Basic, active high: Output is high if absolute indicated weight is heavier than setpoint. (Default)</p>		<p>THR-LOW Threshold, active low Output goes to low if absolute indicated weight is heavier than setpoint high. Returns the high if the weight is less than setpoint</p>	
<p>BAS-LO Basic, active low: Output is low if absolute indicated weight is heavier than setpoint.</p>		<p>VIN-HI Window, active high Output goes to high if absolute indicated weight is between setpoint high and setpoint low</p>	
<p>THR-HI Threshold, active high: Output goes to high if absolute indicated weight is heavier than setpoint high. Returns the low if the weight is less than setpoint low.</p>		<p>VIN-LOW Window, active low Output goes to low if absolute indicated weight is between setpoint high and setpoint low</p>	

BX30 Plus Weighing Terminal

Digital Output: S IND Free setpoint of indicated weight

<p>SP1 = 100 Kg SP1 LOW = 100 Kg SP1 HIGH = 150 Kg</p> <p>SP2 = -200 Kg SP2 LOW = -200 Kg SP2 HIGH = -225 Kg</p>		<p>SP1 = 100 Kg SP1 LOW = 100 Kg SP1 HIGH = 150 Kg</p> <p>SP2 = -200 Kg SP2 LOW = -200 Kg SP2 HIGH = -225 Kg</p>	
<p>BAS-HI Basic, active high: Output is high if absolute indicated weight is heavier than setpoint. (Default)</p>		<p>THR-LOW Threshold, active low Output goes to low if absolute indicated weight is heavier than setpoint high. Returns the high if the weight is less than setpoint</p>	
<p>BAS-LO Basic, active low: Output is low if absolute indicated weight is heavier than setpoint.</p>		<p>VIN-HI Window, active high Output goes to high if absolute indicated weight is between setpoint high and setpoint low</p>	
<p>THR-HI Threshold, active high: Output goes to high if absolute indicated weight is heavier than setpoint high. Returns the low if the weight is less than setpoint low.</p>		<p>VIN-LOW Window, active low Output goes to low if absolute indicated weight is between setpoint high and setpoint low</p>	

BX30 Plus Weighing Terminal

Digital Output: S ANE Free setpoint of absolute net weight

<p>SP1 =100 Kg SP1 LOW =100 Kg SP1 HIGH =150 Kg</p>	<p>A graph with 'Net weight' on the vertical axis and 'Load' on the horizontal axis. A diagonal line represents the relationship. Vertical dashed lines are drawn at -100 and 100 on the Load axis. The origin is marked 0. Other tick marks are at -150, 100, and 150.</p>	<p>SP1 =100 Kg SP1 LOW =100 Kg SP1 HIGH =150 Kg</p>	<p>A graph with 'Net weight' on the vertical axis and 'Load' on the horizontal axis. A diagonal line represents the relationship. Vertical dashed lines are drawn at -100 and 100 on the Load axis. The origin is marked 0. Other tick marks are at -150, 100, and 150.</p>
<p>BAS-HI Basic, active high: Output is high if absolute indicated weight is heavier than setpoint. (Default)</p>	<p>A digital signal graph for 'Out-1'. The signal is low for negative loads and high for positive loads greater than 100. Vertical dashed lines are at -100 and 100.</p>	<p>THR-LOW Threshold, active low Output goes to low if absolute indicated weight is heavier than setpoint high. Returns the high if the weight is less than setpoint</p>	<p>A digital signal graph for 'Out-1'. The signal is high for negative loads and low for positive loads greater than 100. Vertical dashed lines are at -100 and 100.</p>
<p>BAS-LO Basic, active low: Output is low if absolute indicated weight is heavier than setpoint.</p>	<p>A digital signal graph for 'Out-1'. The signal is high for negative loads and low for positive loads greater than 100. Vertical dashed lines are at -100 and 100.</p>	<p>VIN-HI Window, active high Output goes to high if absolute indicated weight is between setpoint high and setpoint low</p>	<p>A digital signal graph for 'Out-1'. The signal is high only for loads between -100 and 100. Vertical dashed lines are at -100 and 100.</p>
<p>THR-HI Threshold, active high: Output goes to high if absolute indicated weight is heavier than setpoint high. Returns the low if the weight is less than setpoint low.</p>	<p>A digital signal graph for 'Out-1'. The signal is low for negative loads and high for positive loads greater than 100. Vertical dashed lines are at -100 and 100.</p>	<p>VIN-LOW Window, active low Output goes to low if absolute indicated weight is between setpoint high and setpoint low</p>	<p>A digital signal graph for 'Out-1'. The signal is low only for loads between -100 and 100. Vertical dashed lines are at -100 and 100.</p>

BX30 Plus Weighing Terminal

Digital Output: S NET Free setpoint of net weight

<p>SP1 = 100 Kg SP1 LOW = 100 Kg SP1 HIGH = 150 Kg</p> <p>SP2 = -200 Kg SP2 LOW = -200 Kg SP2 HIGH = -225 Kg</p>		<p>SP1 = 100 Kg SP1 LOW = 100 Kg SP1 HIGH = 150 Kg</p> <p>SP2 = -200 Kg SP2 LOW = -200 Kg SP2 HIGH = -225 Kg</p>	
<p>BAS-HI Basic, active high: Output is high if absolute indicated weight is heavier than setpoint. (Default)</p>		<p>THR-LOW Threshold, active low Output goes to low if absolute indicated weight is heavier than setpoint high. Returns the high if the weight is less than setpoint</p>	
<p>BAS-LO Basic, active low: Output is low if absolute indicated weight is heavier than setpoint.</p>		<p>VIN-HI Window, active high Output goes to high if absolute indicated weight is between setpoint high and setpoint low</p>	
<p>THR-HI Threshold, active high: Output goes to high if absolute indicated weight is heavier than setpoint high. Returns the low if the weight is less than setpoint low.</p>		<p>VIN-LOW Window, active low Output goes to low if absolute indicated weight is between setpoint high and setpoint low</p>	

BX30 Plus Weighing Terminal

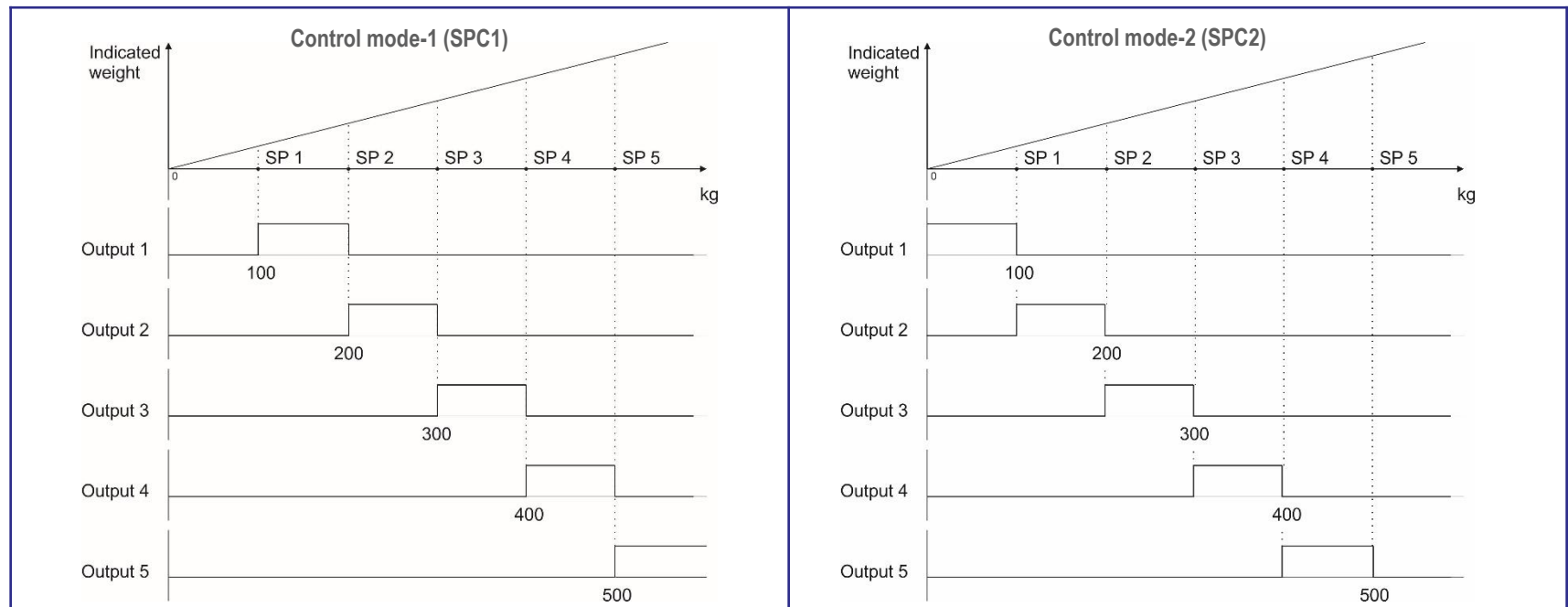
Digital Output: S GRO Free setpoint of gross weight

<p>SP1 =100 Kg or SP1 LOW =100 Kg SP1 HIGH =150 Kg</p>		<p>SP1 =100 Kg SP1 LOW =100 Kg SP1 HIGH =150 Kg</p>	
<p>BAS-HI Basic, active high: Output is high if absolute indicated weight is heavier than setpoint. (Default)</p>		<p>THR-LOW Threshold, active low Output goes to low if absolute indicated weight is heavier than setpoint high. Returns the high if the weight is less than setpoint</p>	
<p>BAS-LO Basic, active low: Output is low if absolute indicated weight is heavier than setpoint.</p>		<p>VIN-HI Window, active high Output goes to high if absolute indicated weight is between setpoint high and setpoint low</p>	
<p>THR-HI Threshold, active high: Output goes to high if absolute indicated weight is heavier than setpoint high. Returns the low if the weight is less than setpoint low.</p>		<p>VIN-LOW Window, active low Output goes to low if absolute indicated weight is between setpoint high and setpoint low</p>	

BX30 Plus Weighing Terminal

Digital Output: Control mode outputs SPC1 and SPC2

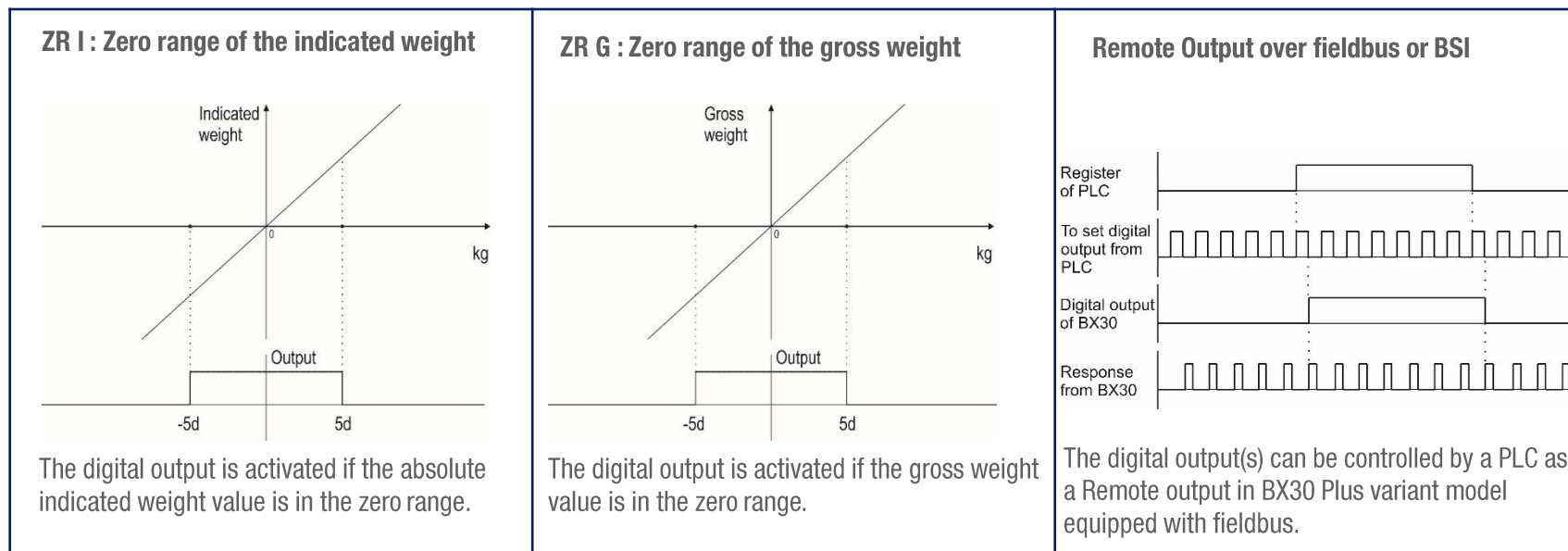
If set points are set to Control mode-1 or Control mode-2 and their values are entered in sequence the digital outputs are activated as seen below.



Non used digital outputs can be programmed freely. If SP5 is not needed for process control it can be set to zero range to get empty signal.

BX30 Plus Weighing Terminal

Digital Output: ZR I / ZR G, Stable, Run, Error, Fieldbus remote output



Stable : The digital output is activated when the displayed weight value is stable.

Run : The digital output is high during weighing in progress and low in power on cycle and in setup modes.

Error : The digital output is activated when any error is announced on the display.

BX30 Plus Weighing Terminal

BAYKON
Industrial Weighing Systems

Enclosure and mechanical installation

- IP67 protected front panel, aluminum body and stainless steel rear panel.
- Suitable for use in wet, hygienic and harsh industrial environments.
- Easy and quick installation to the panel with two holders and M4 screws.



BX30 Plus Weighing Terminal

BAYKON
Industrial Weighing Systems

Industrial Weighing Applications

- Basic Weighing
- Labelling & Data Collecting
- Dynamic (Livestock) weighing
- Mobile scale indicator with tilt switch
- Checkweighing
- Classifying
- Filling
- Peak Hold
- Totalization



BX30 Plus Weighing Terminal

Labelling : Smart printing solutions customized to application

- BX30 Plus supports the printing of labels, strips, slips, tickets or forms.
- The following print format can be selected;
 - Single line
 - Multi line 16 or 26 characters
 - EPL format
- BX30 Plus can store the print template in EPL format
- Print mode data outputs is sent;
 - By pressing the enter key,
 - By receiving ASCII Print command via serial port or Ethernet port,
 - By receiving print command via digital input,
 - Automatic printout when the weight is stable.
- Standard printout can include customized Header and Footer , Date, Time, Consecutive Number (CN), user defined ID1&ID2, Gross ,Tare and Net Weight



BX30 Plus Weighing Terminal

Labelling

- Single Line Printing to send the data to a PC or host computer.

DATE		TIME		ID1 Name		ID1 Data		ID2 Name		ID2 Data		CN		GROS S		PT or TARE		NET		ALB		C R	L F
10	3	5	3	Max. 16	3	Max. 32	3	Max. 16	3	Max. 32	3	9	3	13	3	13	3	13	4	12	1	1	

- Multi Line Printing: Standard printout can include customized Header and Footer , Date, Time, Consecutive Number (CN), user defined ID1&ID2, Gross ,Tare and Net Weight.

The diagram illustrates four different multi-line printing formats. The first format is for a 16-character printer, while the others are for 26 or more characters. Each format includes a header, date, time, consecutive number (CN), operator name, material name, gross weight, tare weight, net weight, and a footer. The first format also includes user-defined IDs (ID1 and ID2).

Multi Line Format for 16 character printer

```

Header
Baykon A.S.
www.baykon.com
Istanbul, Turkey

23.02.2017
09:16
CN      34

ID1 → OPERATOR
      JOSEPH SMITH

ID2 → MATERIAL
      ASCORBIC ASID

G      4.772 kg
T      1.675 kg
N      3.097 kg

* Thank you *
Footer
  
```

Multi Line Wide Format for 26 or more character printer

```

Baykon A.S.
www.baykon.com
Istanbul, Turkey

23.02.2017
09:16
CN      34

OPERATOR
JOSEPH SMITH

MATERIAL
ASCORBIC ASID

G      4.772 kg

* Thank you *
  
```

Multi Line Wide Format for 26 or more character printer

```

Baykon A.S.
www.baykon.com
Istanbul, Turkey

Date      23.02.2017
Time      09:16
CN      34

OPERATOR
JASMINE WHITE

MATERIAL
ROSE PARFUME

Gross      4.772 kg

* Thank you *
  
```

Multi Line Wide Format for 26 or more character printer

```

Baykon A.S.
www.baykon.com
Istanbul, Turkey

Date      23.02.2017
Time      09:16
CN      34

OPERATOR
JASMINE WHITE

MATERIAL
ROSE PARFUME

Gross      4.772 kg
Tare      1.675 kg
Net      3.097 kg

* Thank you *
  
```

Multi Line Format for 16 character printer

Multi Line Wide Format for 26 or more character printer

BX30 Plus Weighing Terminal

Labelling

➤ Standard printout for totalization.

Baykon A.S.
www.baykon.com
Istanbul, Turkey

Date 23.02.2016
Time 09:16
CN 34

OPERATOR
JOSEPH SMITH

MATERIAL
POLYETHYLENE

1 Tare	0.102 kg
Net	1.000 kg
2 Tare	0.100 kg
Net	1.001 kg
3 Tare	0.099 kg
Net	1.000 kg
4 Tare	0.100 kg
Net	1.003 kg
5 Tare	0.099 kg
Net	0.999 kg

TOTAL

Gross	5.503 kg
Tare	0.500 kg
Net	5.003 kg

* Thank you *

Horizontal totalization

Baykon A.S.
www.baykon.com
Istanbul, Turkey

Date 23.02.2016
Time 09:24
CN 54

OPERATOR
JOSEPH SMITH

MATERIAL
POLYETHYLENE

Tare	0.201 kg
1 Net	0.599 kg
2 Net	0.604 kg
3 Net	0.600 kg
4 Net	0.600 kg
5 Net	0.600 kg
6 Net	0.499 kg
7 Net	0.402 kg
8 Net	0.302 kg

TOTAL

Gross	4.407 kg
Tare	0.201 kg
Net	4.206 kg

* Thank you *

Vertical totalization

➤ Label samples in EPL format



BAYKON
INDUSTRIAL WEIGHING SYSTEMS
<http://www.baykon.com>

DATE : 28/03/2018
TIME : 19:23
Material : Fodder
Description : 1st Class
Alibi No : 214
CN : 134

GROSS : 15.526 kg
TARE : 1.690 kg

NET : 13.836 kg

134

Fodder

15.526 13.836 214

BX30 Plus Weighing Terminal

Dynamic Weighing :

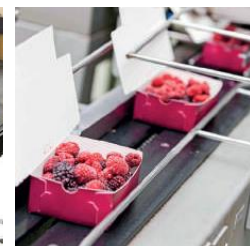
- Applied to accurate weighing of loads in motion with two modes;
 - Individual weighing : For weighing of dynamic parts and livestock.
 - Continuous weighing : For weighing of the loads being carried by conveyor such as uncut tire.
- Captured weight is displayed and automatically exported via serial or Ethernet ports.
- Adjustable Dynamic Filter Time to maximize weighing accuracy.
- Dynamic weighing starts in the following ways provided that the weight $>50e$ or $>$ min weight;
 - By pressing key
 - With command from communication ports or digital input
 - Automatic with weight



BX30 Plus Weighing Terminal

Checkweighing

- Over/Under control of pre-packed products by weighing
- Product limit set values (target, low limit, high limit and empty weight) can be entered as ;
 - Weight value
 - Deviation from target
 - Percentage of target
- 500 Product limits set memories
- Assistance by SmartAPP features;
 - Audio signal, multi color display and bar graph
- Digital 4 inputs / 5 outputs for process control
- Saving and exporting last weighing record for data collection



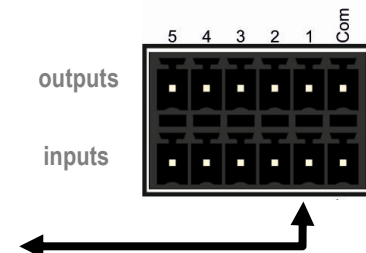
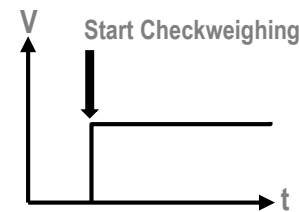
BX30 Plus Weighing Terminal

How to Start Checkweighing Operation

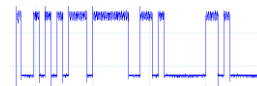
- By pressing function key assigned to start



- With digital input 1



- By transmitting “Start SmartAPP” command via serial interface



- With the load heavier than empty range



BX30 Plus Weighing Terminal

SmartAPP features for Checkweighing

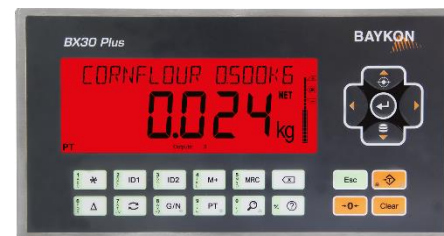
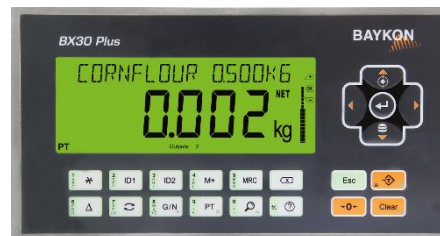
➤ The following SmartAPP features can enhance operator interaction;

- Audio Signal : 

- Bar Graph : The graphical indication of over/under status.



- Multi Color Display :
Different display colors for different checkweighing zones provide easy operation.



BX30 Plus Weighing Terminal

Checkweighing timing diagram, digital inputs and outputs

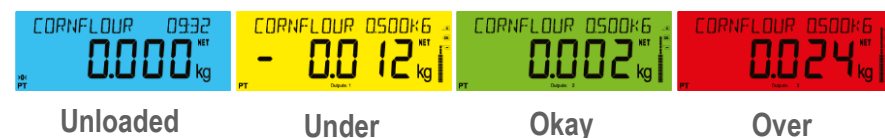
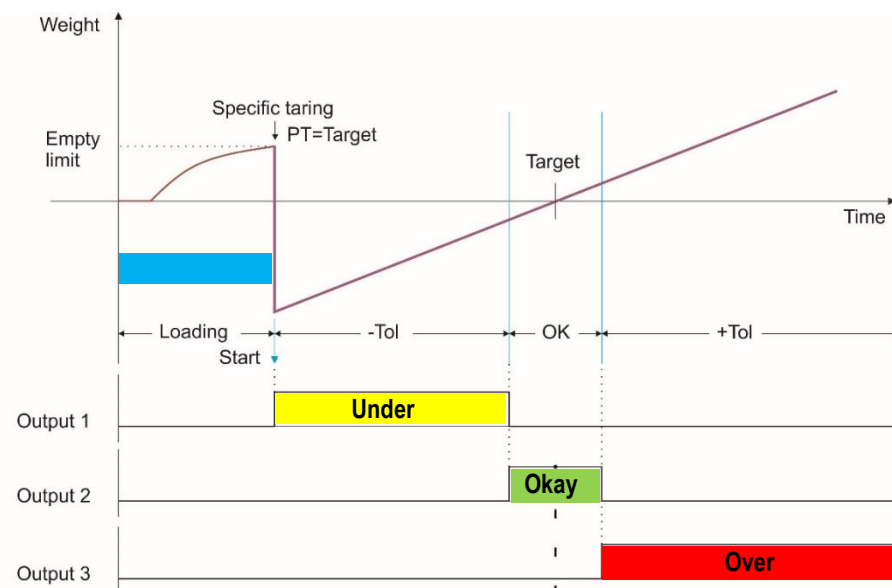
➤ Inputs

- Start
- Stop
- Taring
- Zeroing
- Clear
- and more

➤ Outputs

- - Tolerance
- Okay
- +Tolerance
- Weighing is stable
- Indicated Weight
- and more

- Lamp tower connection for alarm
- PLC connection for process control



BX30 Plus Weighing Terminal

Classifying

- Sorting articles within 6 classes by weighing
- Product limit set values (target, lower limits, higher limits and empty weight) can be entered as;
 - Weight
 - Deviation from target
 - Percentage of target
- 500 Product limits set memories
- Assistance by SmartAPP features;
 - Audio signal, multi color display and bar graph
- Digital I/O: 4 inputs to control scale – 5 outputs for process control



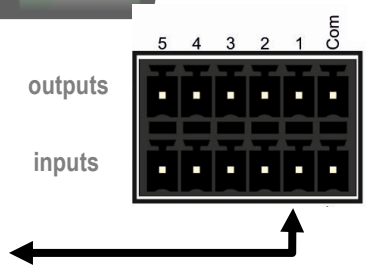
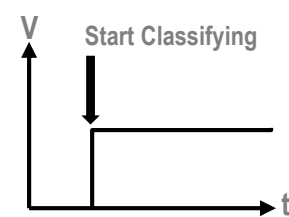
BX30 Plus Weighing Terminal

How to Start Classifying Operation

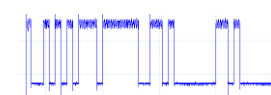
➤ By pressing function key assigned to start



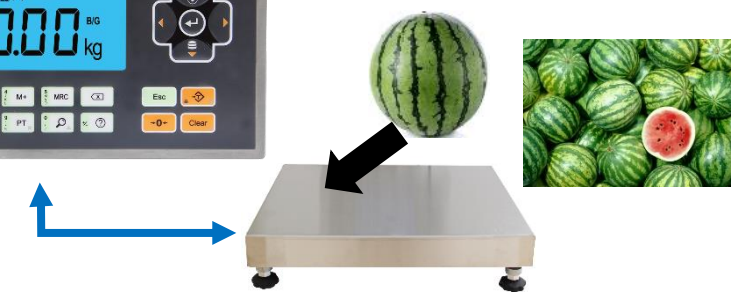
➤ With digital input 1



➤ By transmitting “Start SmartAPP” command via serial interface



➤ With the load heavier than empty range



BX30 Plus Weighing Terminal

SmartAPP features for Classifying

➤ The following SmartAPP features can enhance operator interaction:

- Audio Signal : 
- Bar Graph : The graphical indication of classifying



- Display Color :
Different display colors for different Classifying zones provide easy operation.



BX30 Plus Weighing Terminal

Classifying timing diagram, digital inputs and outputs

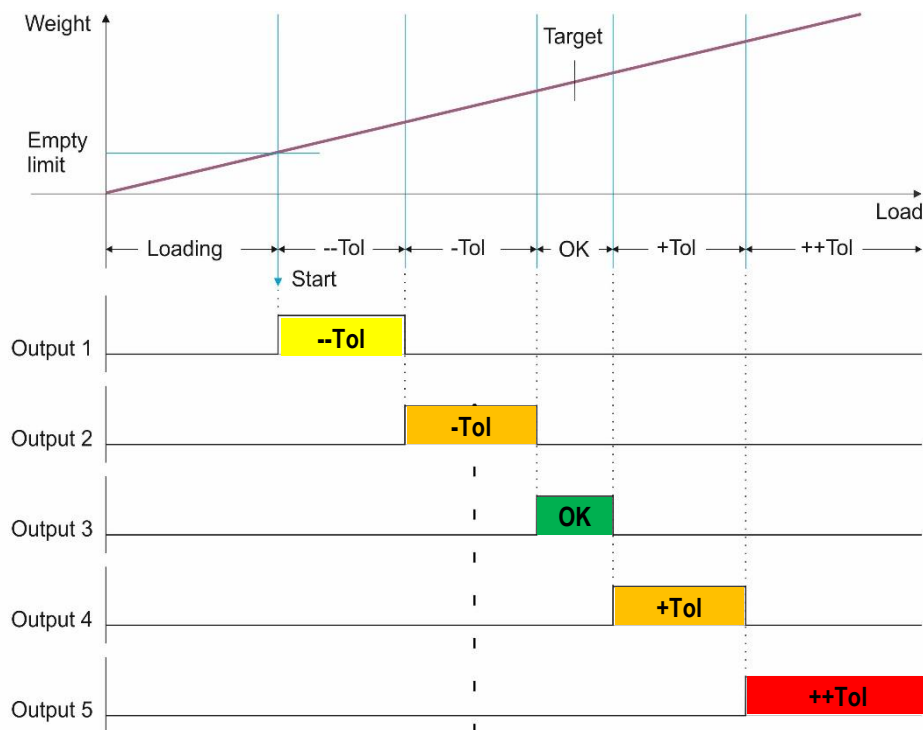
➤ Inputs

- Start
- Stop
- Taring
- Zeroing
- Clear and more

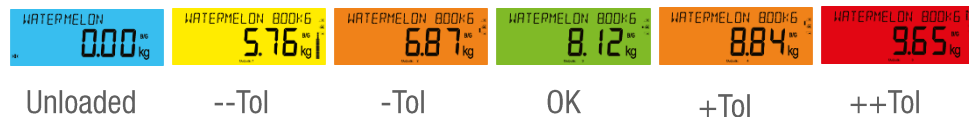
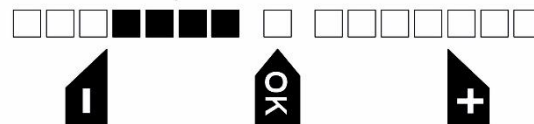
➤ Outputs

- -- Tolerance
- - Tolerance
- Okay
- +Tolerance
- ++Tolerance

- Lamp tower connection for alarm
- PLC connection for process control



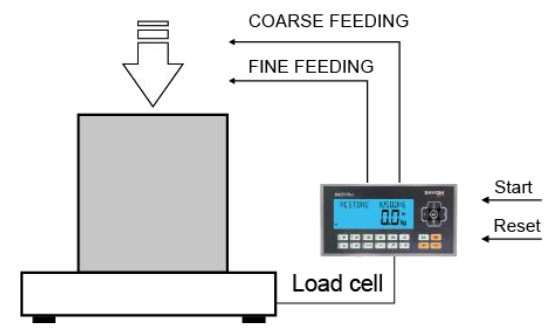
SmartAPP bar



BX30 Plus Weighing Terminal

Filling

- 2 speed filling into an empty container
- Gross or net filling mode
- Tare control for net filling
- 500 Product limits set memories
- Product limit set values can be entered as;
 - Weight (target, coarse & fine feeding, tare min&max and empty weight)
 - Deviation from target (coarse & fine feeding)
 - Percentage of target (coarse & fine feeding)
- Assistance by SmartAPP features;
 - Audio signal, multi color display and bar graph
- Digital I/O: 4 inputs to control scale – 5 outputs for process control



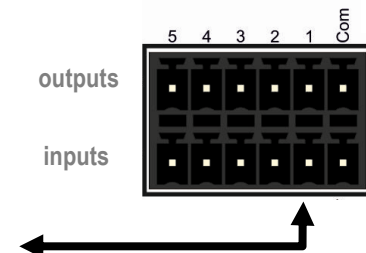
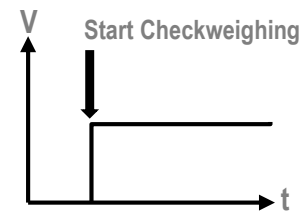
BX30 Plus Weighing Terminal

How to Start Filling Operation

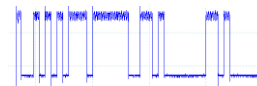
- By pressing function key assigned to start



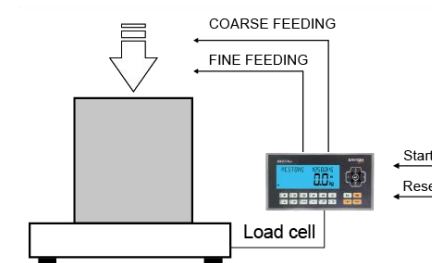
- With digital input 1



- By transmitting “Start SmartAPP” command via serial interface



- With the load heavier than empty range



BX30 Plus Weighing Terminal

SmartAPP features for Filling

➤ The following SmartAPP features can enhance operator interaction;

- Audio Signal : 

- Bar Graph : The graphical indication of filling status



- Multi Color Display :
Different display colors for coarse and fine feeding provide easy operation.



BX30 Plus Weighing Terminal

Filling timing diagram, digital inputs and outputs

➤ Inputs

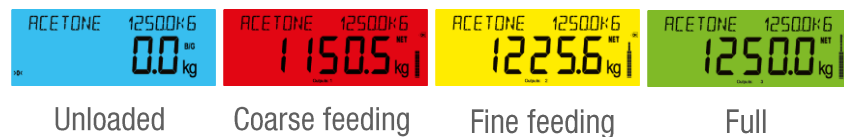
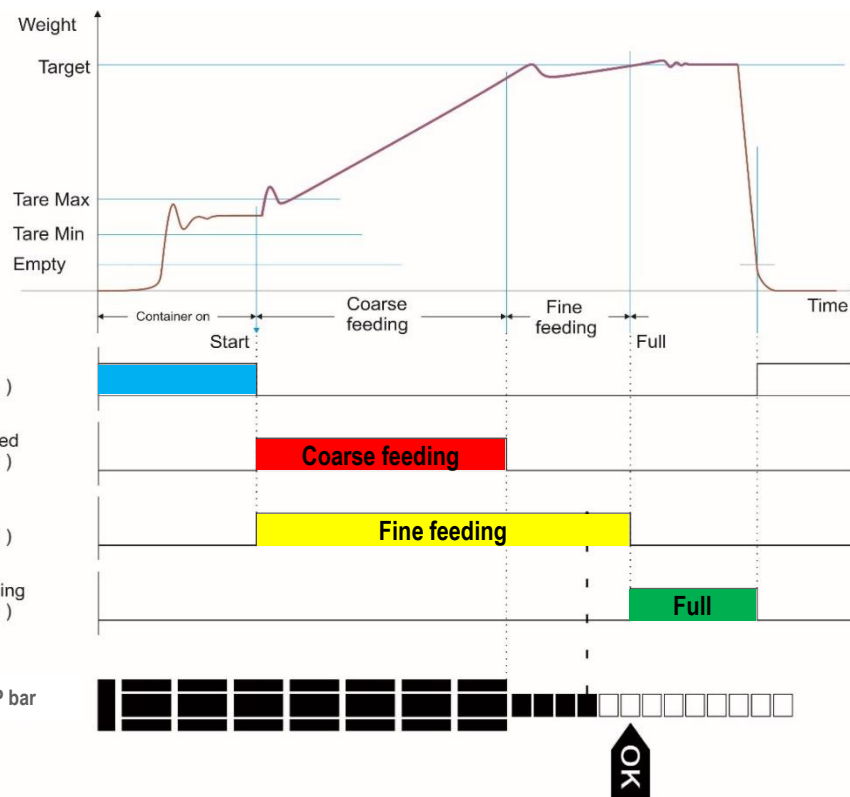
- Start
- Reset
- Zeroing
- Taring
- And more

➤ Outputs

- Ready
- Fine
- Coarse
- End of filling
- And more

➤ Lamp tower connection for alarm

➤ PLC connection for process control



Peak Hold

- Suitable for tensile and compression test applications.
- Up to ten broken points of testing material are detected.
- All peak values of test can be seen on the display automatically after testing.
- 500 Product limits set memories
- Product limit set values can be entered as;
 - Force (Follow, MID DCR, END DCR, Stop, Alarm and Empty)
 - Percentage (MID DCR, END DCR)
- Assistance by SmartAPP features;
 - Audio signal, multi color display and bar graph
- Digital I/O: 4 inputs to control scale – 5 outputs for process control

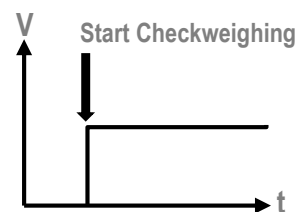
BX30 Plus Weighing Terminal

How to Start Peak Hold Operation

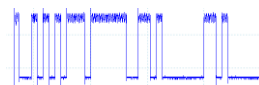
- By pressing function key assigned to start



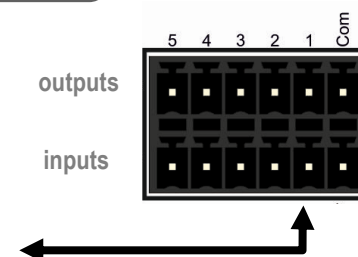
- With digital input 1



- By transmitting “Start SmartAPP” command via serial interface



- With the force bigger than empty range



BX30 Plus Weighing Terminal

SmartAPP features for Peak Hold

➤ The following SmartAPP features can enhance operator interaction;

▪ Audio Signal : 

▪ Bar Graph : The graphical indication of Peak Hold



▪ Multi Color Display :
Different display colors for run , peak detection and alarm provide easy operation.



BX30 Plus Weighing Terminal

Peak Hold timing diagram, digital inputs and outputs

➤ Inputs

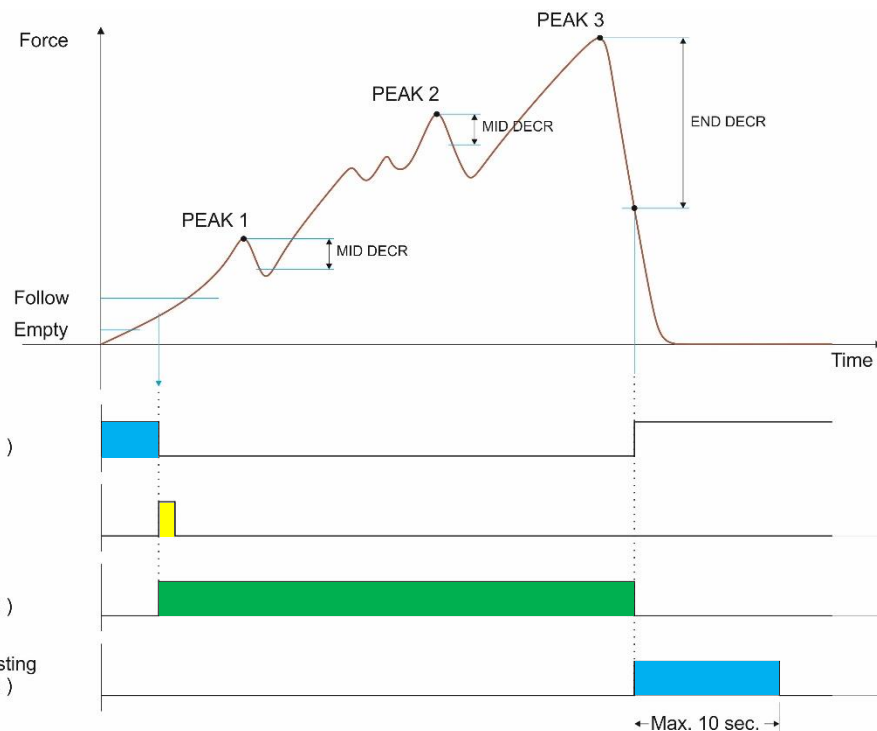
- Start
- Reset
- Zeroing
- Taring
- And more

➤ Outputs

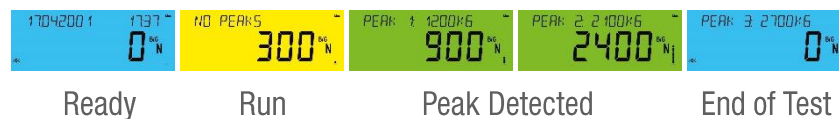
- Ready
- Start
- Run
- End of Testing
- And more

➤ Lamp tower connection for alarm

➤ PLC connection for process control



SmartAPP bar





Danke sehr !

multumesc!

الشكر لك !

谢谢 !

Thank you !

Merci !

спасибо!

obrigado!

आपको धन्यवाद देता हूं!

Gratias !

Teşekkürler !

Grazie !

