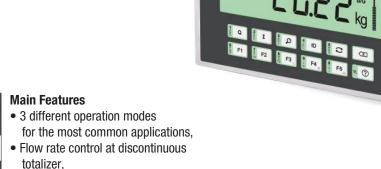
BX30Total Weighing Controller

Discontinuous Totalizer & Extraction Rate Scale Controller

BX30 Total



50.00KG







• Full control of discontinuous totalizing and extraction rate weighing systems.

• 7 Programmable user keys.

- Multicolor LCD display guides the operator,
- Programmable spare digital I/O's to continue operation in case of any I/O malfunction.

· Real time control of the extraction rate weighing system at every discharge,

Internal 12/14,External 16/16, Digital I/O



Advanced Technology & Performance

- Controls discharges real-time for accurate weighing and flow rate,
- Up to 1600 conversions per second,
- 1000 times higher internal resolution at measurement,
- · Control of the peripheral equipment with freely programmable digital I/O's.



Integration & Connectivity

- Ethernet TCP/IP, USB, RS-232C, RS-485, Profibus, Profinet, Modbus RTU, Modbus TCP, EtherNet/IP, EtherCAT, CANopen, CC-Link, CC-Link IE, Powerlink,
- · Remote service via internet.









BX30Total is a high-tech, smart, and economical device especially design to control the discontinuous totalizing and extraction rate weighing systems. It provides flow rate control in discontinuous totalizer and real-time flow control in extraction rate scales.

BX30Total has 3 different operating modes designed to cover all discontinuous totalizer and extraction rate scale applications. Its programmable 7 keys can be assigned to the predefined functions to provide a quick and informative operation.

Freely programmable digital inputs & outputs eliminate PLC in the control cabinet to complete control the peripheral equipments in the system such as pump, valve, silo level control, discharge shut level control etc.

Spare digital I/O's ensure operation continues until the replacement card arrives in case of any digital I/O failure.





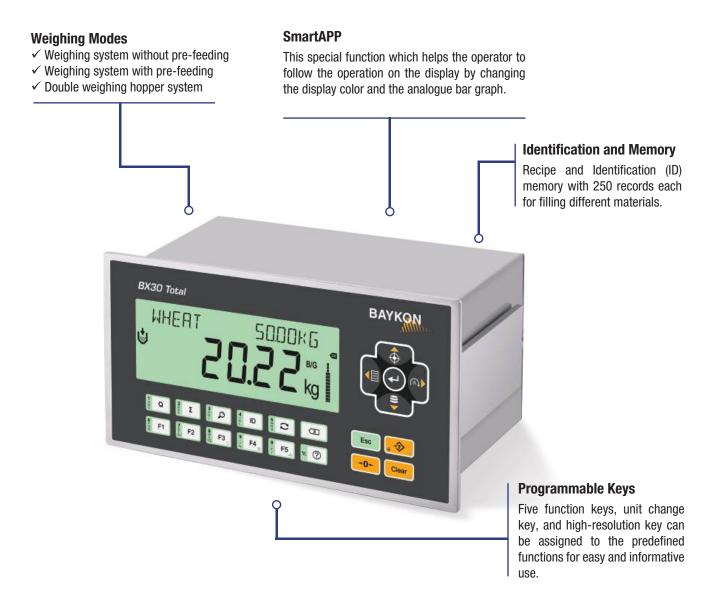


BAYKON



High accuracy at in-process weighing applications with BAYKON technology and know-how.

BX30Total is a latest-generation filling controller developed with Baykon's state-of-the-art technology and know-how. It is an accurate weighing and control instrument suitable for use in all kinds of gravimetric discontinuous totalizing and in-process weighing systems applications of powders and liquids. BX30Total is easily integrated into the factory automation systems such as PC, PLC, SCADA, etc.



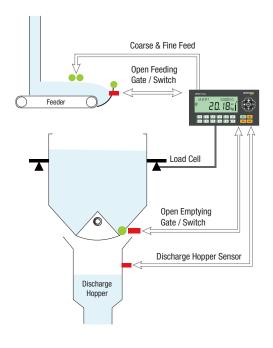
Changing Display Colour



The operator follows the operation is done in tolerance by multicolor display. Continuous under filling or overfilling means that there is a mistake at the parameter entries of the controller, and this mistake must be corrected to increase system efficiency. For example, continuous overfilling (red display) may mean that the coarse feeding is made more than necessary.

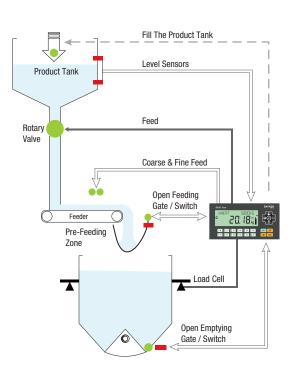
Applications Samples

Extraction Rate Scale

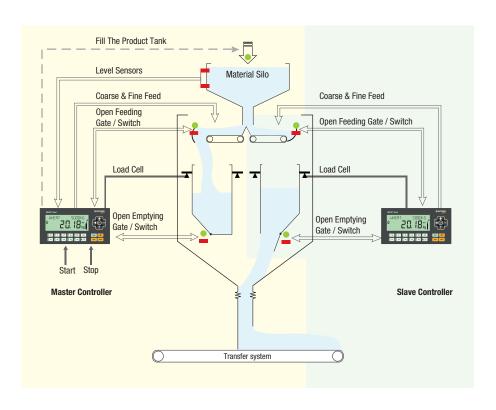


Discontinuous Totalizer

3 different pre-feeding types

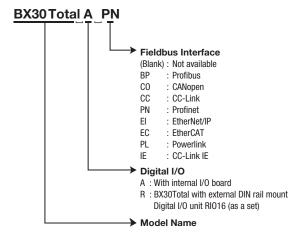


Complete control of the discontinuous totalizer having double weighing hoppers



Technical Spe	CHICATIONS						
Accuracy class & EU type approval	OIML class III, single range, multi range or multi interval up to 10000 divisions.						
Display	Wide angle and bright LCD display with multicolor backlight, 22 mm in height 6 digits weight display and 8 mm in height 16 digits alphanumeric information display.						
Display resolution	Up to 300 000 divisions at industrial usage						
A/D conversion	24 bit Delta-Sigma ADC with up to 1600 conversions rate.						
Minimum input sensitivity	$0.4\mu\text{V/e}$ (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. Process measurement resolution is 1000 x scale division.						
Calibration	Calibration with test weights eCal-electronic calibration without test weights Span calibration with temporary zero of charged tank Zero adjustment, Gain adjustment, Coefficient entry.						
Digital filter	7 steps programmable adaptive filter.						
Scale functions	Taring, zeroing, auto zero tracking, motion detection, auto zero at power up, tare status save at power off, increased resolution, automatic tare and clear, temporary gross indication, unit change.						
Filling modes	3 different filling modes especially for Single and Double scale discontinuous totalizers, Extraction rate controller.						
Memory	Two memories for recipe and ID , each has 250 records size.						
Programmable keys	7 programmable keys can be assigned pre-defined functions for applications.						
Digital I/O	Internal: 12 digital inputs / 14 digital outputs External: 16 digital inputs / 16 digital outputs with DIN rail mounting RIO16 unit.						
Digital inputs	Opto-isolated and reverse polarity connectable, 12 to 28 VDC, 10mA. Selectable input(s) can be programmed as logic and time functions or used as a Remote Input of your PLC over Fieldbus.						
Digital outputs	Opto-isolated and short circuit protected transistor outputs, 12 to 28 VDC / 100 mA, Selectable output(s) can be programmed as logic and time functions or used as a Remote Output of your PLC over Fieldbus						
Data outputs (standard)	Galvanically isolated RS232C, RS485, USB and Ethernet TCP/IP.						
Fieldbus interface (optional)	Profibus, Profinet, CANopen, Modbus TCP, Modbus RTU, Ethernet TCP/IP, EtherNet/IP, EtherCAT, CC-Link, Powerlink						
Alibi memory	99 999 weighing records.						
Number of load cells	Up to 8 load cells 350 Ω or up to 26 load cells 1200 Ω (min. 43 Ω)						
Load cell supply voltage	5 VDC @ max. 150 mA						
Operation temperature	-15° C $\sim +55^{\circ}$ C max. (operational), -10° C $\sim +40^{\circ}$ C (legal metrology)						
Humidity	Max. 90 % non-condensing relative humidity. For legal metrology max. 80 %						
Housing and protection class	IP67 protected stainless steel front panel, aluminium body and stainless steel rear panel.						
Power supply	12 - 28 VDC 100 mA @24VDC (May increase with the selected options)						
Dimensions (H x W x D)	108 x 205 x 112,5 mm Panel mount cutout dimensions (H x W): 92 x 186 mm						
Package sizes & Gross weight	12,5 x 22 x 12,5 cm, 1,75 kg						

Ordering & Interface Selection Table



Note: Please specify your Alibi memory request as an option.

	BX30Total A	BX30Total A PB	BX30Total A CO	BX30Total A CC	BX30Total A PN	BX30Total A EI	BX30Total A EC	BX30Total A PL	BX30Total A IE
RS232C	•	•	•	•	•	•	•	•	•
RS485	•	•	•	•	•	•	•	•	•
RS422	•	•	•	•	•	•	•	•	•
USB	•	•	•	•	•	•	•	•	•
Ethernet TCP/IP	•	•	•	•	•	•	•	•	•
Modbus RTU	•	•	•	•	•	•	•	•	•
Modbus TCP	•	•	•	•	•	•	•	•	•
Profibus DPV1		•							
CANopen			•						
CC-Link				•					
Profinet					•				
EtherNet/IP						•			
EtherCAT							•		
Powerlink								•	
CC-Link IE									•
Alibi Memory	0	0	0	0	0	0	0	0	0
• Otan dand of Outlan									

● Standard ○ Option

