

BX14 Weighing Controller

For discontinuous totalizer & extraction rate scales



Advanced Technology

- 16.000.000 internal resolution
- Up to 1600 measurement values per second
- Display resolution 999.999
- Easy control with digital 6 Inputs and 5 Outputs
- · Ergonomic design with small size



Smart Process Control

- Flow rate control
- · Totalising control
- By-pass functions
- · Emptying pipe control
- Daily total, estimated next 24h total, batch total, turn total, Non-erasable total



External Programming

- Calibration is performed with or without test weights (eCal)
- Easy programming and calibration via RS-232C port by BAYKON "IndFace1x" software
- Calibration via PLC interfaces



System Integration

- RS-232C / RS 485
- Modbus RTU, Modbus TCP
- Ethernet TCP/IP, EtherNet/IP
- EtherCAT
- Profibus, Profinet
- CANopen
- CC-Link









BX14, is a smart weighing controller and it is designed for discontinuous totalizer or extraction rate scale applications. BX14 is used for flow control on the production line together with totalizing the transferred material. This instrument also gives information estimated next 24h total for the actual flow rate and daily total. Additional 3 accumulations can be used for different purposes like production batch total, turn total, Non-erasable total etc. This controller has 4 opto-isolated digital input, 2 non-isolated digital input and 5 relay contact outputs. They are used for filling and disacharge processes.

It has 16.000.000 internal resolution and high speed with up to 1600 measurements per second.

Powerful calibration options including electronic calibration without test weights support easy and fast start-up and service. It's small size aluminium body provides perfect panel installation with its big display and with its small space need on control panels.

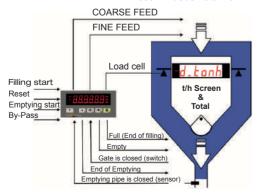


BX14 Specifications

•	BATT opcomoducio	
Accuracy		
Accuracy class	OIML Class III	
EU Type approval	10.000 division	
Linearity	% 0.0015 FS	
Temperature coefficient	≤ 2 ppm/°C	
Display and Keyboard		
Display	6 digits, 7 segments, LED red, 13,5 mm high	
Status annunciators	Gross, net, centre of zero, 1 / hour flow rate, estimated next 24 hour total, total, unit (kg, t, lb)	
Keyboard	5 key (function, star key, tare/clear, zero, print), with tactile feedback	
Key lock	Key can be locked against unauthorized access	
A/D Converter		
Туре	24 bit Delta-Sigma ratiometric with internal analogue and digital filtres	
Conversion rate	Up to 1600 measurement values per second	
Min. input sensitivity	0.4 μV/d (Approved); 0.1 μV/d (Non approved)	
Analogue input range	- 18 mV to +18 mV	
Resolution	Internal up to 16.000.000; display up to 10 000 increment (Approved); up to 999 999 increment (Non approved)	
Scale Calibration and Functions		
Calibration	Calibration is performed with or without test weights (eCal)	
Digital filter	10 steps programmable adaptive filter	
Weighing functions	Taring, zeroing, auto zero tracking, motion detection, increased resolution	
Process functions	Flow rate control, totalising control, emptying pipe control, by-pass functions	
	Accumulations; daily total, estimated next 24h total, batch total, turn total, Non-erasable total	
Digital Inputs / Outputs		
Digital outputs	5 relay contact 250 VAC or 30 VDC, 1 A	
Digital inputs	4 opto - isolated and 2 non - isolated digital inputs 12 - 28 VDC, 10 mA	
Interfaces		
RS-232C	1200 to 115200 baud, 8 none 1, 7 even 1, 7 odd 1, 8 even 1 or 8 odd 1	
	Continuous, BSI (Baykon Serial Interface) protocol and printer forms	
RS-485	1200 to 115200 baud, 8 none 1, 7 even 1, 7 odd 1, 8 even 1 or 8 odd 1, 31 units on the bus	
Modbus RTU	1200 to 115200 baud, 8 none 1, 8 even 1 or 8 odd 1, up to 31 units on the RS-485 bus	
Ethernet TCP/IP or Modbus TCP	10 Mbit/s (half duplex), galvanically isolated	
EtherNet/IP	10 Mbit/s or 100 Mbit/s, full dublex, galvanically isolated	
EtherCAT	100 Mbit/s, full dublex, galvanically isolated	
Profibus	Profibus DPV1. 9,6 kbit/s to 12 Mbit/s automatic baud rate detection	
Profinet	100 Mbit/s, full dublex, galvanically isolated	
CANopen	10 kbit/s - 1 Mbit/s automatic baud rate detection	
CC-Link	156 Kbit/s – 10 Mbit/s (selectable), baud rate	
Powerlink	100Mbit/s, half duplex	
Load Cell Connection		
Excitation	5 VDC max. 125 mA	
Number of load cells	Up to 8 load cells 350 1100 Ω in paralel (min 43 Ω - max 1200 Ω) or 25 load cells	
Connection	4 or 6 wire technique. Cable length 1000 m/mm² for 6 wire connection	
Environment and Enclosure		
Operation temperature	-15 °C to +55°C; %85 RH max., non - condensing	
Enclosure	Stainless steel front panel, aluminum body, stainless steel rear panel. 48mm x 96mm panel size; 100mm depth	
Protection class	Front panel IP65.	
Power requirement	12 - 28 VDC, Max. 300mA	

Application Modes

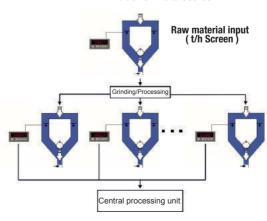
Discontinuous Totalizer



(Specifications are subject to change without notice. 03-09 / 2017)

BAYKON Industrial Weighing Systems

Extraction Rate Scales



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