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



- 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



OIML OIML CE

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.

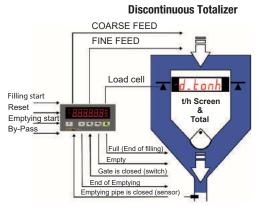
Powerful calibration options including electronic calibration without test weights support easy and fast start-up and service. It's small size aluminium body provides perfect panel installation with its big display and with its small space need on control panels.



BX14 Specifications

Accuracy	
Accuracy class	OIML Class III
EU Type approval	
Linearity	% 0.0015 FS
Temperature coefficient	$\leq 2 \text{ ppm/°C}$
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 Ω or up to 24 load cells 1100 Ω (min. 43 Ω)
Connection	4 or 6 wire technique. Cable length 1000 m/mm ² 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
Annlication Modes	

Application Modes



Raw material input (t/h Screen)

> ↓ Central processing unit

Extraction Rate Scales

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