

BX10 Weighing Terminal

Go Beyond Basic Weighing



The Baykon BX10 is a state of the art process controller for industrial weighing applications. Its standard features include an RS232 serial port and 2 digital IOs that can be programmed as either inputs or outputs. Optionally the BX10-MB version offers RS485 with Modbus RTU.

Powerful calibration functionality includes eCal which enables electronic calibration without the need for test weights. This ensures fast setup and efficient servicing especially for tank scales. The BX10 also has adaptive digital filtering for a super-fast and stable weighing performance and up to 1600 conversions per second.

The BX10's compact aluminium body is perfect for panel installations and a large 13.5mm LED display provides clear and easy reading even from a distance.



Features

- 16.000.000 internal resolution
- Big LED display
- Programmable via PC
- RS-232C serial interface
- Ergonomic design with small size

BX10MB has Additionally;

- RS485 serial interface
- 2 pcs programmable digital In/Out



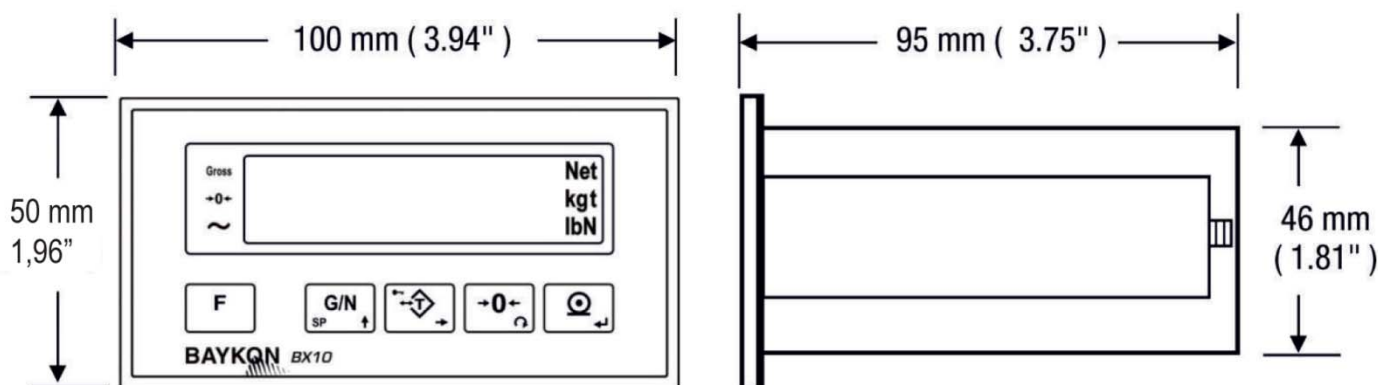
Powerful Calibration

- Calibration with test weight
- eCal Electronic calibration
- Calibration via serial interface
- Span calibration under load

BX10 Specifications

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, red, 13,5 mm high
Status annunciators	Gross, net, motion, centre of zero, unit
Keyboard	5-keys (function, GN, tare/clear, zero, print)
Key lock	Keys can be locked against unauthorized access
A/D Converter	
Type	24 bit Delta-Sigma ratiometric ADC
Conversion rate	Up to 1600 measurements per second
Minimum input sensitivity	0.4 µV/d (Approved); 0.1 µV/d (Non approved)
Analogue input range	0 mV to -18 mV (unipolar); -18 mV to +18 mV (bipolar)
Resolution	Internal up to 16.000.000; up to 10 000 increment (Approved); up to 999 999 increment (Non approved)
Calibration and Programming	
Calibration	eCal: Electronic calibration without etalon weights sCal: Span calibration of non-emptied tanks
Digital filter	10 step adjustable adaptive digital filter
Weighing functions	Tare, zeroing, auto zero tracking, motion detection, auto-zero at power-up.
Other functions	Label number, gross, tare indication.
Interface	
I / O port	2 ports can be programmed as digital input or digital output, non-isolated
RS-232C seri port	1200 to 115200 baud, programmable Continuous, Printer, BSI (Baykon Serial Interface) protocol
RS-485 seri port	1200 to 115200 baud, programmable, 8 none 1, 7 even 1, 7 odd 1, 8 even 1 or 8 odd 1, up to 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
Loadcell Connection	
Excitation	5 VDC, max. 300 mA
Number of load cells	Up to 8 load cells 350 Ω or up to 24 load cells 1100 Ω (min 43 ohm– max 1200 ohm)
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
Enclosure	Panel type, aluminum body, plastic front panel, stainless steel rear panel 48mm x 96mm panel size; 100mm depth
Power Requirement	12 - 28 VDC, max. 300 mA
BX10 Variants	
BX10	: RS-232C, 2 pcs programmable digital input and output.
BX10 MB	: Modbus RTU on RS-485 or RS-232C, 2 pcs programmable digital input and output.

(Specifications are subject to change without notice. 03 / 2015)



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