

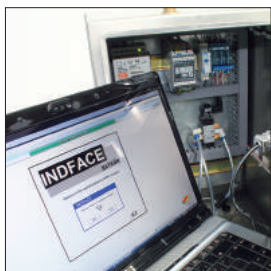
BX10 Weighing Terminal

Beyond the basic weighing process



Features

- 16.000.000 internal resolution
- Fast weighing at 1600 conv/s
- Programmable via PC
- RS-232C serial interface
- RS485 serial interface with Modbus RTU
- 2 pcs programmable digital In/Out
- Analogue output



Powerful Calibration

- Calibration with test weight
- eCal-Electronic calibration, especially for heavy capacity scales
- Calibration via serial interface
- Span calibration under load for non-empty tanks and silos
- Calibration via Modbus RTU

BAYKON BX10 is a state-of-the-art indicator for industrial weighing applications. Its RS232C and RS485 serial ports, two digital ports programmable as input or output, and analog output features make BX10 an excellent solution in process control.

Powerful calibration options, including eCal-electronic calibration without test weights, support easy and fast start-up and service. BX10 features adaptive digital filtering for fast settling, display resolution up to 999.999 with extremely stable indication, and up to 1600 conversions per second.

Its small size aluminum body provides a perfect installation advantage in control panels with a lack of space. Its bright and large display with red LED in 13,5 mm high offers easy reading from far distance.

Technical Specifications

Accuracy	
Accuracy class	OIML Class III
EU Type approval	10.000 division
Linearity	% 0.0015 FS
Temperature coefficient	≤ 2 ppm/°C
Display and Keys	
Display	6 digits, 7 segments, red, 13,5 mm high
Status annunciators	Gross, net, motion, centre of zero, unit
Keys	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 ports (BX10 MB only)	2 ports can be programmed as digital input or digital output, non-isolated
RS-232C / RS-485 serial port	1200 to 115200 baud, programmable to Continuous, Printer, BSI (Baykon Serial Interface) data protocol formats, up to 31 units on the RS485 bus
Modbus RTU	Modbus-RTU High-Low and Modbus-RTU Low-High
Analogue output (BX10 AN only)	Programmable to 4 – 20 mA, 0 – 20 mA, 0 – 5 VDC or 0 – 10 VDC
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 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
Enclosure	Panel type aluminum body with plastic front panel and stainless-steel rear panel
Dimensions	100mm x 50 mm front panel size; depth 95 mm
Power Requirement	12 - 28 VDC, max. 300 mA
BX10 Variants	
BX10 AN :	Analogue output, RS-232C, RS-485, Modbus RTU
BX10 MB :	RS-232C, RS-485, Modbus RTU, 2 pcs programmable digital input and output

