

BX11 Weighing Indicator

Powerful features in small size



Features

- Up to 1600 measurement per second
- 16.000.000 internal counter
- Ergonomic design with small size
- 13,5 mm LED display
- eCal Electronic calibration
- Programmable via PC
- RS-232C & RS-485 serial interface
- 4 digital input 5 Relay contact output



System Integration

- Ethernet TCP/IP
- Modbus RTU
- Modbus TCP
- Profibus
- Profinet
- CANopen
- Analog output

BAYKON BX11 is a smart indicator for industrial weighing process applications offering powerful PLC integration facilities; serial ports as RS-232C, RS-485, 4 digital inputs and 5 digital outputs, Ethernet, analog output and fieldbus connections such as Ethernet, Modbus, Profibus, Profinet, CANopen.

Powerful calibration options including Electronic calibration without test weights supports easy and fast start-up and service. BX11 is featuring adaptive filtering for fast settling, high display resolution and 1600 conversion per second speed.

It's small size aluminum body provides perfect panel installation with its big display and with its small space need on control panels. The instrument has stainless steel front panel for usage in harsh environment.

BX11 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, units
Keyboard	5-key (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 conversions 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)
Scale Calibration and Functions	
Calibration	Standard: With etalon weights via keys or via IndFace1X software on serial port eCal: Electronic calibration without etalon weights Fieldbus: Fieldbus commands for zero and span adjustments 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
Digital outputs	5 set points with relay contact output.
Digital Inputs	4 inputs are programmable for zeroing, tare, clear, hold, peak, print etc.
Interfaces	
RS-232C	1200 to 115200 baud, programmable Continuous, Printer, BSI (Baykon Serial Interface) protocol
RS-485	1200 to 115200 baud, 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
Ethernet TCP/IP or Modbus TCP	10 Mbit/s (half duplex), galvanically isolated
Profibus	Profibus DP V1. 9,6 kbit/s to 12 Mbit/s automatic baudrate detection
Profinet	100 Mbit/s (full duplex), galvanically isolated
CANopen	10 kbit/s to 1 Mbit/s automatic baud rate detection
Analogue	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 6 load cells 350 Ω or 18 load cells 1100 Ω in parallel
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
Power Requirement	12 to 28 VDC max. 300 mA
BX11 Series Instruments	
BX11 :	RS-232C, RS-485, 4 input, 5 output
BX11 AN :	Analogue output, RS-485, RS-232C, 2 input, 4 output RS-485 is programmable to Modbus RTU.
BX11 EN :	Ethernet TCP/IP, RS-485, RS-232C, 4 input, 5 output Ethernet port is programmable to Modbus TCP RS-485 is programmable to Modbus RTU.
BX11 MB :	Modbus RTU on RS-485, RS-232C, 4 input, 5 output
BX11 PB :	Profibus DP V1, RS-485, RS-232C, 4 input, 5 output RS-485 is programmable to Modbus RTU.
BX11 PN :	Profinet, RS-485, RS-232C, 4 input, 5 output RS-485 is programmable to Modbus RTU.
BX11 CO :	CANopen, RS-485, RS-232C, 4 input, 5 output RS-485 is programmable to Modbus RTU.

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