

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

- 4-20 mA, 0-10 V Analogue output
- RS-232C / RS 485
- Modbus RTU, Modbus TCP
- Ethernet TCP/IP, EtherNet/IP
- EtherCAT
- Profibus, Profinet
- CANopen
- CC-Link

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/IP, Modbus, Profibus, Profinet, CANopen, EtherCAT and CC-Link.

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 aluminium 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 environments.

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 Keyboard	
Display	6 digits, 7 segments, LED 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 Inputs / Outputs	
Digital outputs	5 set points with relay contact output.
Digital inputs	4 inputs are programmable for zeroing, tare, clear, hold, peak, print etc.
Interfaces	
Analogue	Programmable to 4 – 20 mA, 0 – 20 mA, 0 – 5 VDC or 0 – 10 VDC
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
EtherNet/IP	10 Mbit/s or 100 Mbit/s, full duplex, galvanically isolated
EtherCAT	100 Mbit/s, full duplex, galvanically isolated
Profibus	Profibus DP V1. 9,6 kbit/s to 12 Mbit/s automatic baud rate detection
Profinet	100 Mbit/s (full duplex), galvanically isolated
CANopen	10 kbit/s to 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
Power requirement	12 to 28 VDC max. 300 mA

Order Codes

	BX11MB	BX11AN	BX11EN	BX11PB	BX11PN	BX11EI	BX11CO	BX11EC	BX11CC	BX11PW
RS232C										
RS485										
Digital IO										
Analogue	-	●	-	-	-	-	-	-	-	-
Ethernet TCP/IP	-	-	●	-	-	-	-	-	-	-
Ethernet Modbus	-	-	●	-	-	-	-	-	-	-
EtherNet/IP	-	-	-	-	-	●	-	-	-	-
Profibus	-	-	-	●	-	-	-	-	-	-
Profinet	-	-	-	-	●	-	-	-	-	-
CANopen	-	-	-	-	-	-	●	-	-	-
EtherCAT	-	-	-	-	-	-	-	●	-	-
CC-Link	-	-	-	-	-	-	-	-	●	-
POWERLINK	-	-	-	-	-	-	-	-	-	●

● Selectable as Modbus RTU

● Standard 4 optically-isolated input - 5 set points with relay contact output.