

BX11 Weighing Indicator

Compact and Powerful Performance













- 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

The Baykon BX11 is a smart weight indicator for industrial weighing and process applications. It offers powerful PLC integration options including RS232 and RS485 serial ports as standard as well as 4 digital inputs and 5 digital outputs. Connectivity options include Ethernet, Analogue and fieldbus connections such as Ethernet/IP, Modbus, Profibus, Profinet CANopen, EtherCAT and CCLink.

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 BX11 also has adaptive digital filtering for a super-fast and stable weighing performance and up to 1600 conversions per second.

The BX11's compact size is perfect for panel installations and a large 13.5mm LED display provides clear and easy reading even from a distance. The stylish stainless steel front panel makes it ideal for use in harsh environments.

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Accuracy							
Accuracy class	OIML Class III						
EU Type approval	10.000 division						
inearity	% 0.0015 FS						
emperature 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							
Гуре	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						
Veighing 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.						
nterfaces	Tinputo are programmable for zorolling, airo, olear, nota, pears, print etc.						
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 dublex, galvanically isolated						
EtherCAT	100 Mbit/s, full dublex, 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							
CC-Link	10 kbit/s to 1 Mbit/s automatic baud rate detection						
POWERLINK	156 Kbit/s – 10 Mbit/s (selectable), baud rate						
Load Cell Connection	100Mbit/s, half duplex						
	EVDC may 125 mA						
Excitation Number of load cells	5 VDC, max. 125 mA						
Connection	Up to 6 load cells 350 Ω or 18 load cells 1100 Ω in parallel						
	4 or 6 wire technique. Cable length 1000 m/mm ² for 6 wire connection						
Environment and Enclosure	15°C to 155°C: 950′, PH may non-condensing						
Operation temperature Enclosure	-15°C to +55 °C; 85% RH max., non-condensing. Stainless steel front panel, aluminum body, stainless steel rear panel.						
Davis and an income and	48mm x 96mm panel size; 100mm depth						
Power requirement	12 to 28 VDC max. 300 mA						

					Order C	odes								
	BX11	BX11MB	BX11AN	BX11EN	BX11PB	BX11PN	BX11EI	BX11CO	BX11EC	BX11CC	BX11PW			
RS232C		Standard												
RS485	•	 Selectable as Modbus RTU 												
Digital IO		 Standard 4 optically-isolated input - 5 set points with relay contact output. 												
Analogue	-	-	•	-	-	:=:	-		-	-				
Ethernet TCP/IP			-	•				-	-	-	-			
Ethernet Modbus	-	-	-	•	-	-	-	-	-	-	-			
EtherNet/IP	-	-	-	:-	-		•	-	-	-	-			
Profibus	-	-	-	-	•	-	-	-	-	-	-			
Profinet	-		-	-	-	•	-	-	-	-	-			
CANopen		-	-	-	-	-	-	•	:-	11-	:=			
EtherCAT	-	-	-	-		-	-	-	•	-	-			
CC-Link	-	-	-	-	-	-	II-e	-	-	•	-			
POWERLINK	-	-	-	-	-	-	-	-		-	•			

(Specifications are subject to change without notice. 03-11 / 2016)



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