

# BX1+ Weighing Indicator

Reliable and accurate weighing performance



## Features

- OIML10000e and 2 x 6000e approved
- 20 mm LED display
- x10 key for high resolution
- 1.000.000 keypad test
- Standard RS-232C port
- Battery option
- Time and Date



## 2 Type Industrial Boxes

- Desk and wall types;
  - IP65, full stainless steel
- Panel type;
- IP65 stainless steel front panel, aluminum body



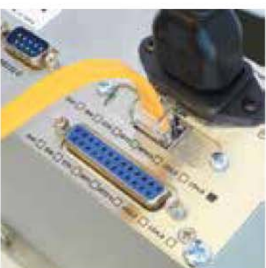
## External Programming

- Easy programming and calibration via RS-232C port by BAYKON "INDFACE" software,
- Header and footer for label can be loaded from PC.



## eCal - Electronic Calibration

- Calibration without test weights
- Big advantage to calibrate a high capacity tank, silo or any weighing system calibrations.



## System Integration

- 2. serial port RS-232C
- 3. serial port RS-485, RS-232C or 20mA CL ASCII
- Ethernet TCP / IP
- Modbus RTU / TCP
- Profinet
- CANopen
- Profibus
- Opto-isolated parallel 3I / 3O
- Analogue output (0-10 V / 4-20 mA)
- Binary output



The BX1+ is a highly accurate and versatile general purpose weight indicator with a robust stainless steel IP67 rated housing that ensures high performance in the harshest of conditions.

OIML approved for up to 10,000d single range or 2 x 6000d multi-range the BX1+ is the ideal cost effective and high quality professional weighing solution.

A clear 20mm high red LED display is easy to read in all lighting conditions and an easy to use menu ensures quick and intuitive setup.

The BX1+ features time and date as well as easy to use printing and label design via our free "IndFace" PC software.

3 serial ports are available as standard as well as a wide variety of interface options including Ethernet, Modbus, Profibus, Analogue (0-10V / 4-20mA) and Digital IOs. Multiple calibration options are also available including electronic calibration without the need for test weights.

# BX1 Specifications

<b>Accuracy</b>				
Accuracy Class	III			
EU Type approval	10.000 intervals (single range) or 2 X 6000 intervals (multi range)			
Linearity & temperature coefficient	% 0.0015 FS ; $\geq 2$ ppm/°C			
<b>Display and Keyboard</b>				
Display	6 digits, 7 segments, LED red, 20 mm high (Panel type 14 mm high)			
Status annunciators	Gross, net, motion, centre of zero, weighing ranges, information, power, unit			
Keyboard	8-key membrane, with tactile feedback			
Key lock	Basic weighing related key can be locked against unauthorized access			
<b>A/D Converter</b>				
Type	24 bit Delta-Sigma ratiometric ADC			
Conversion rate	Maximum 100 measurements per second			
Minimum input voltage	0.4 $\mu$ V per interval legal for trade; 0.1 $\mu$ V per interval non approved			
Analogue input range	0 mV – 18 mV			
Resolution	Internal up to 8.000.000; display up to 60.000 counts			
<b>Scale Calibration and Functions</b>				
Calibration	Standart: By etalon weights via keys or serial eCal: Electronic calibration without etalon weights			
Digital filter	10 step adjustable digital adaptive filter			
Weighing functions	Taring, zeroing, auto zero tracking, motion detection, auto-zero at power-up			
Other functions	Label number, total, gross, tare indication			
Set points	3 set points, programmable (needs I/O board is an option)			
Tilting	Inhibits weighing when scale is tilted (needs I/O board option)			
Serial interface	RS-232C, 1200...57600 baud, programmable			
Alibi memory	Optionally available; 74880 records or 149760 records			
<b>Loadcell Connection</b>				
Excitation	5 VDC, max. 100 mA			
Number of load cells	Up to 6 load cells 350 $\Omega$ or 18 load cells 1100 $\Omega$ in parallel			
Connection	4 or 6 wire technique. Cable length 274 m/mm <sup>2</sup> for 6 wire connection			
<b>Environment and Enclosure</b>				
Operation temperature	-10 °C to +40 °C legal for trade;			
Humidity	85% RH max, non-condensing.			
Enclosure	Panel type (front panel IP65) or stainless steel housing (IP65)			
	<b>Panel type</b>		<b>Stainless steel</b>	
<b>Power Supply</b>				
230 VAC, 50/60 Hz or 24 VDC (max. 12 VA)	●	○	●	○
12 VDC, max. 300 mA	—	—	○	—
Rechargeable battery	—	—	○	—
<b>Options</b>				
2nd Serial interface (RS-232C)	○	○	○ (1)	○
2nd Serial interface (RS-232C) and 3rd Serial interface (RS-232C/RS-485/Modbus RTU)	○	○	○ (1)	○
Profibus DP-V0&V1 / Profinet / CANopen	○	○	○ (1)	○
Ethernet TCP/IP and Modbus TCP	○	○	○ (1)	○
Analogue output: 0 -10 V / 4 - 20 mA	○	—	○ (1)	—
Binary output of displayed weight (17 - bit code)	○	○	○ (1)	—
3 Setpoints	○	○	○ (1)	○
Opto-isolated digital inputs (24 V) and Opto-isolated digital outputs (open emitter)	○	○	○ (1)	○
<b>Mounting Parts</b>				
Wall mount kit	—	—	●	○
Stand mount kit	—	—	○	—

(1) Not available for battery equipped instruments

● standard version    ○ optionally available    — not available

(Specifications are subject to change without notice. 05 / 2016)