

# BX1 Weighing Indicator

For scales and weighing processes



## 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



## 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



BX1 Weighing Indicator is very accurate, versatile, general purpose instrument, available in different housings, meeting the industrial demands for various environmental conditions.

The instrument is approved by Weights & Measures Authorities for use in Accuracy Class III applications with 10000 and 2x6000 intervals according to OIML R76. Large 6 digit LED weight display (red 20 mm / panel type 14 mm) with weighing status information.

With a wide variety of interface options, various calibration features including electronic calibration and up to 60000d display resolution, BX1 is a perfect fit terminal for weighing process control systems.

**BAYKON**  
Industrial Weighing Systems

# BX1 Specifications

## Accuracy

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

## Display and Keyboard

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

## A/D Converter

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

## Scale Calibration and Functions

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

## Loadcell Connection

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

## Environment and Enclosure

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)

### Panel type

### Stainless steel

## Power Supply

230 VAC, 50/60 Hz or 24 VDC (max. 12 VA)	●		●	
12 VDC, max. 300 mA		○		○
Rechargeable battery	—	—	○	—

## Options

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)	○

## Mounting Parts

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)

