# BX18 Weighing Indicator

## DIN rail mounted weighing instrument

**Features**
- 14mm LED display
- Up to 1600 convertion/sec
- Calibration via keys and by PC/PLC through interfaces
- Electronic calibration (eCAL) without test weights
- Span calibration (sCAL) of non-empty tanks.

**System Integration**
- RS-232C serial port
- RS-485 serial port
- Modbus RTU
- Analog selectable as 0-20mA, 4-20mA, 0-5 VDC and 10 VDC
- Parallel I/O port as 4 x Inputs and 6 x Outputs

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BAYKON BX18 is a DIN rail mounted indicator to install in a cabinet for intensive dusty enviroment. It offers RS-232C, RS-485, Analog output, Parallel port including 4 x Inputs and 6 x Outputs, Modbus RTU fieldbus interfaces as standard.

Powerful calibration options including electronic calibration without test weights, span calibration of non-empty tanks support easy and fast installation and service. BX18 is featuring 10 step adaptive filter for fast settling, up to 999.999 display resolution and 1600 conversion per second.

Programming and calibration can be executed via device keys and by PC/PLC through serial ports and fieldbus. BX18 is powered by from 12-28 volt DC supply.

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# BX18 Specifications

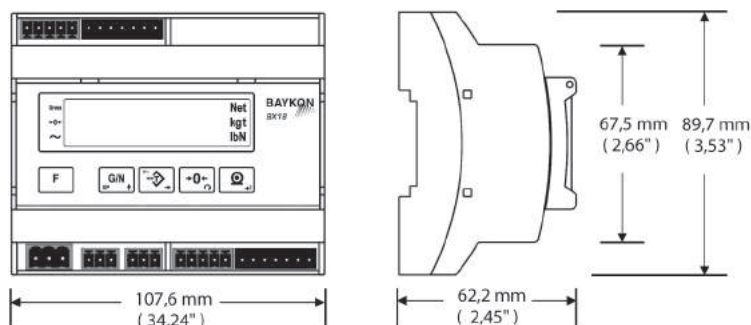| Accuracy | |
|---|---|
| Linearity | % 0.0015 FS |
| Temperature coefficient | ≤ 2 ppm/°C |
| **Display and Keyboard** | |
| Display | 6 digits, 7 segments, red, 14 mm high |
| Status annunciators | Gross, net, motion, centre of zero, units (kg, g, t, lb, klb, N, kN) |
| Keyboard | 5-key (function, 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 | 0.1 µV per interval |
| Analogue input range | 0 mV to + 18 mV (unipolar) ; -18mV to +18mV (bipolar) |
| Resolution | Internal up to 16.000.000; display up to 999.999 d |
| **D/A Converter** | |
| Type | 16 bit D/A converter |
| Max. cable length | 300 meter |
| Max. load resistance (current output) | 500 Ω |
| **Scale Calibration and Functions** | |
| Calibration | Standard: By etalon weights via keys or serial port via IndFace1x software<br>eCal: Electronic calibration without etalon weights<br>sCal: Span calibration of non-emptied tanks. |
| Digital filter | 10 step adjustable adaptive digital filter |
| Weighing functions | Tare, zero ing, auto zero tracking, motion detection, auto-zero at power-up. |
| Other functions | Label number, gross, tare indication |
| Digital outputs | 6 set points with relay contact output. |
| Digital Inputs | 4 opto-isolated inputs are programmable for zeroing, tare, clear, hold, peak, print etc. |
| **Interfaces** | |
| RS-232C | 1200 to 115200 baud, programmable<br>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 |
| Analogue | Programmable to 4 – 20 mA, 0 – 20 mA, 0 – 5 VDC or 0 – 10 VDC |
| **Loadcell Connection** | |
| Excitation | 5 V DC, max. 300 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 274 m/mm² for 6 wire connection |
| **Environment and Enclosure** | |
| Operation Temperature | -15°C to +55°C; 85% RH max, non-condensing. |
| Enclosure | Polycarbonate, mounting in standard DIN rails, IP20<br>89,7 mm x 107,6 mm x 62,2 mm |
| Power Requirement | 12 – 28 VDC, Max. 300 mA |

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