BX18 Weighing Indicator

DIN rail mounted weighing instrument

Phoenix
Scales Limited

CE

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

The Baykon BX18 is a DIN rail mounted indicator that is ideal for cabinet mounting in harsh dusty environments. Impressive connectivity options include RS-232, RS-485, Analogue Output, Parallel Port, 4 inputs and 6 Outputs and Modbus RTU as standard.

The BX18 features e-Cal for calibration with or without test weights which is ideal for the calibration of non empty tanks and allows fast and efficient installation and servicing. Programming and calibration can be done via the keypad or via PLC/PC using the serial port or fieldbus connection.
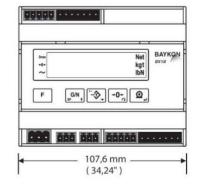
The BX18 is powered by a 12 - 28VDC supply,.ideal for operating off standard panel supplies, and features advanced filtering with up to 1600 weighing conversions per second.
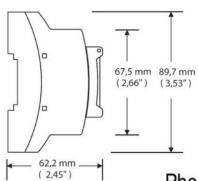
Phone: 0845 601 7464
Email: sales@phoenixscales.co.uk

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 eCal: Electronic calibration without etalon weights 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 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 6 load cells 350 Ω or 18 load cells 1100 Ω in parallel
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 89,7 mm x 107,6 mm x 62,2 mm
Power Requirement	12 – 28 VDC, Max. 300 mA

(Specifications are subject to change without notice. 03 / 2015)