An ISO 9001 Certified Company

WEIGHING & AUTOMATION

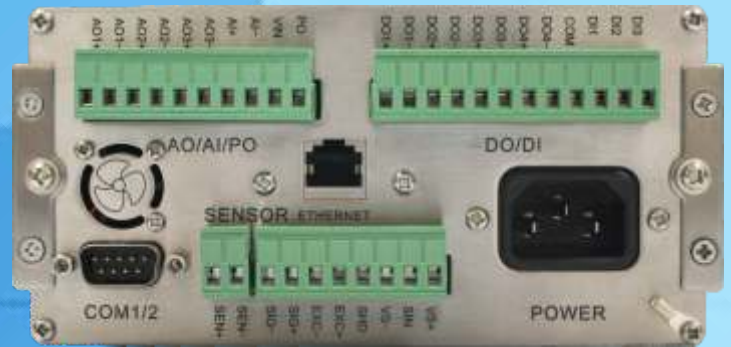*Innovating since 1977*

BCW-DS INDICATOR

Introduction

The BCW-DS is one of the most recent launches from our innovation centre. Taking the performance of the belt weigher to a higher degree, this indicator has all the features you could imagine of a belt weigher. The fully configurable, high speed data acquisition module is very compact. Armed with a 32-bit processor, it is capable of achieving high accuracies for belt speeds of up to 4 mtrs/sec. It has automatic zero compensation and comes with various optional features like Profibus connectivity, Ethernet connectivity, Remote display etc. Enclosed in a metallic enclosure, it is highly isolated from the harsh EMI interferences encountered in the Industrial world and is easy and quick to configure.

The salient features are

➢ 32-bit ARM CPU with 72 MHz & higher arithmetic speeds

➢ Max. connection Quantity: 8 loadcells

➢ Auto locking, key locking, key unlocking, digital setting & calibration and I/O testing function available

➢ Auto zero tracking speed calibration and belt length calibration function available

➢ Accuracy guaranteed for even very low belt loads (system specific)

➢ Digital Proximity speed sensor designed to generate sufficient pulses even at very low belt speed

➢ High Speed ADC is used to enable faster response

BCW-DS INDICATOR

Technical Specifications

Operating Specification	Operating Voltage: AC 220V ± 15% , 50/60 Hz
	Max Power Consumption: 15 w
	Operating temperature: -25 c to +40 c
	Storage temperature: -30 c to +60 c
	Relative humidity: Max 85% RH
	Accuracy Grade: 0.5
	System accuracy: 0.25% system specific
Display	8+4+4 red LED digital display
	Display Refreshing time: setting range .01-2.0 s
Keypad	6 key membrane push - buttons
Loadcell interface	Excitation voltage /Max current: DC 10V/250mA [8-350 Ω loadcells]
	Signal input range: 0 – 25mV
	Σ - Δ ADC: 24 bit, 100,000 internal code used
	Sampling Frequency: 200 Hz
	Non-linearity :0.005% FS
Speed Sensor	Output voltage / Max . Current : D C 12V/100mA
Interface	Speed Pulse Input Range: 0.5 ~ 3000 Hz
Switch signal interface	Digital output
	4 normally open relay switch outputs (DO): AC250 V / DC 24 V, 1A
	1 "Totalized weight high-speed pulse" Output [PO]: 100 mA,
	DC5 ~ 24 V; weight per pulse and pulse width can be pre set
Analog Signal interface	4-20 mA corresponding to rate
	4-20 mA proportional to load/ speed/ rate
Digital communication	Optional RS232/RS485/Profibus /Ethernet modules
	Connectable: PLC / LED Remote Display
Protection Level	Front Panel of Panel mounting: IP 65
Dimension	Panel Mounting: 160 x 84 x 188 mm [W X H X D]
Weight	Panel mounting: 1.7 kg

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