



Industrial Weight Indicator IW01

“Industrial Weight Indicator IW01” is a state of art indicator designed for various industrial applications like industrial automation, PLC integration, concrete batching plants etc. Miniature design gives it a compact look and make suitable for industrial control panels.

Basic Model IW01-11

Software calibration and smart calibration for accurate weight. Smart filter for nullifying effect of vibration on weight. Facility to program target weight set point. Relay output (potential free contact), Status Indicator LED for showing set point achieved condition.

Analog output Model IW01-14(4-20mA)

16-bit 4 to 20mA analog output corresponding to weight is provided in the form of linear current to drive PLC controllers for process control applications. Long distance transmission of weight data without any deterioration of signal can also be achieved by using analog output. Relay indication provided to show availability of 4-20 mA current output.

Analog output Model IW01-10(0-10V)

16-bit 0 to 10V analog output corresponding to weight is provided in the form of linear voltage to drive PLC controllers for process control applications. Relay indication provided to show availability of 0-10V voltage output.

Communication interface Model IW01-21(RS232)

Standard RS232 communication output port is provided. Continuous transmission at field programmable baud rate, parity is provided for current weight.

Communication interface Model IW01-41(RS485 Modbus)

Half duplex RS485 communication is provided with Modbus protocol at programmable baud rate. Indicator has provision to set slave ID. It has facility to read weight and decimal point from 7 different holding registers of various types.

Applications:

Industrial automation

PLC Integration

Concrete Batching Plant

Features

- Panel Mount Housing
96 x 48 x 120 mm
- Loadcell port to connect single weigh platform
- Seven Segment 5 digit Red LED display to show weight
- Four key front mount keypad for easy operation
- One Relay Output:
 - Indication for target achieved condition (depends on model)
 - Indication for analog output (depends on model)
- Indication LED for relay status
- 230 V AC operation
- SMPS power supply to operate over a wide input range (90 to 270V)
- Easy software calibration and setting procedures
- Ability to withstand harsh industrial environment and atmospheric temperature variations

Specification

Processor	8051 controller
Processor Clock	18 Mhz
Power Supply	SMPS Design
Input Voltage	90V to 270V AC @ 50Hz
Protection	Spike suppressor for input power 750mA Fuse for AC power input Input line filter for EMI and RFI suppression
A/D Converter Resolution	Sigma Delta Type with 24 bits resolution
A/D Clock	20 Hz
Conversion Speed	20 samples per second
Load Cell Excitation	6V @ 150mA current capability to drive up to 6 load cells of 350 ohms input resistance
Signal Sensitivity	1 micro volt to 3 micro volts per division of weight (unit weight)
Display	5 digit ½" RED Seven Segment LED display
Keypad	4 key front mount keypad
Output	One Relay (Potential free contact)
Indication	Buzzer for fault and data entry LED for process status / relay status
Mechanical	Dimensions: Case Size: 92mm(w) x 44mm(h)x120mm(d) Bezel size: 96x48mm Panel cut out :92x44 mm Depth: 140mm Weight: 300 gms (approx)
Power Consumption	10VA (approx)
Environment	Operating Temp - 0° to 55° C Humidity - upto 95% RH non condensing
Enclosure type	Panel Mount with sheet metal & extruded aluminum sections
Optional	Other Possible combinations : IW01-20 RS232 & 0-10V IW01-24 RS232 & 4-20mA IW01-40 RS485 & 0-10V IW01-44 RS485 & 4-20mA



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