



Batch Controller

“BC06”

Batch controller BC06 is state of the art industrial batching controller cum logger. It has features for controlling batch operations and storing batch records in the memory. Stored data can be printed for reporting or billing purpose.

Digital outputs for controlling feeds/discharge, digital inputs for external proximity switches and interlocking function are provided. Utility of BC06 is in automatic recipe preparation using various ingredients in proper proportion. Four different models are available to connect number of platforms ranging from 1 to 4.

Solutions are readily available for RMC plants and on customization for similar applications for other field requirements.

Product has been field tested for years and proved highly accurate and reliable even in harsh industrial environment.

Hardware Features

- Microprocessor based
- Sigma Delta type 24 bit ADC
- LCD display to show weight / process /date-time
- Seven Segment LED display to show weight (depending on model)
- SMPS power supply
- 15key front mount keyboard
- Potential free relay outputs with isolation and electrical noise immunity.
- Digital inputs (DI) for connecting external switches/sensors
- RS232 port for continuous transmission of current weight
- Parallel port for connecting 80 column dot matrix printer.
- RTC & memory for date/time and saving facility.
- Panel mount industrial housing.
- Analog output 4-20mA , 0-10V (OPTIONAL)

Software Features

- Password protected Installation settings
- 3 Step software calibration
- Smart Calibration
- Zero, weight tracking feature
- Vibration control features
- Self-test for display, relays, DI's
- Field settable names for ingredients, data entry heads, ticket header-footer
- Factory set Logic of operation, customized as per need
- Provision to program multiple recipe for set of set points
- Hopper capacity entry and multi cycle automatic feeding
- Auto / Manual mode of working (OPTIONAL)
- Troubleshooting and fault management using swapping of loadcell port
- Ticket printing online/offline selection
- Printing of ticket, Date wise consolidated Report
- RS485 communication / modbus protocol (OPTIONAL)

Applications:

RMC Batching Plant

Oil Filling

Chemical Dousing

Specification	
Processor	8051 derivative processor
Processor Clock	18 MHz.
Display	16x2 LCD and 1/2" LED for models BC06_1L, BC06_2L. 40X2 LCD for models BC06_3L, BC06_4L
Power Supply	SMPS with EMI/RFI filter and Spike Suppressor
Fuse	2.5A for AC power in
Signal unit weight	1micro volt to 3 microvolts per unit weight
Protection	RFI/EMI filter for input power Spike suppressor for input transients
Indication	Buzzer for fault indication and data entry
Digital Output	Max. 32 inbuilt potential free relay output for driving solenoid valves/contactor switches
Digital Input	Max. 8 Digital input for connecting remote switches OR other interlocking signals
Loadcell Port	1 to 4 numbers for models BC06_1L, BC06_2L, BC06_3L, BC06_4L respectively
Serial Port	RS-232C port for computer interface or remote display interface
Printer Port	Centronics compatible parallel port for connecting 80 column dot matrix printer
Keyboard port	to connect 101key computer type keyboard
Input Voltage	90 V -270 V AC @ 50 Hz/ 60 Hz.
Memory	128 K for data storage with battery backup 700 recordas, depending on options programmed
Keypad	15-key front mount keypad for data & function entries.
A/D Converter Resolution	A/D Sigma Delta type 24BIT resolution delivering 50 samples per seconds
Conversion Speed	25 Hz.
Load Cell Excitation	8V @ 300mA (up to eight load cells of 480 ohms each)
Input Signal	1 to 3 μ V per division of weight
Power Consumption	10VA (approx)
Environment	Operating Temp: 10 ° to +55 ° Celsius. Humidity: 0 to 95% relative humidity non-condensing
Mechanical	Industrial Panel Mounting Enclosure with sheet metal & extruded Aluminum sections Case Size 282 x 138 x 300mm Bezel size : 190x96 mm Panel cut out : 184X90 mm Depth : 220 mm with rear panel connector Weight: 4.4 kg approx



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