



Batch/Hopper Controller

Batch controller BC04 is state of the art industrial batching controller. "BC04" find its utility in industrial automation applications. It takes weight based input from load cells and generates control using potential free relay outputs. It is having provision to connect external proximity switches for external controls or interlocking the process.

Hardware Features

- 32 bit ARM processor
- Sigma Delta type 24 bit ADC
- Two Seven Segment LED displays for weight, process indication
- SMPS power supply
- 16key front mount keyboard
- 6 potential free relay outputs with isolation and electrical noise immunity.
- 5 digital inputs (DI) for connecting external switches/sensors
- RS232 port for continuous transmission of current weight
- Table top port for connecting external wired displays.
- Panel mount industrial housing.
- Analog output 4-20mA , 0-10V (OPTIONAL)

Software Features

- Password protected Installation settings
- 3 step software calibration
- Multi step Smart Calibration
- Zero, weight tracking feature.
- Vibration control features.
- Self-test for display / relay / DI's
- Factory set Logic of operation, customized as per need.
- Manual inflight correction
- Counter , totalizer
- Auto / Manual mode of working (OPTIONAL)
- Auto inflight correction (OPTIONAL)
- RS485 communication / Modbus protocol (OPTIONAL)

Salient features

- BC04 can be made available for any of the following field requirement
 - Feeding of a material precisely using coarse-fine arrangement
 - Feeding of more than one materials
 - Discharge of a ready batch from weigh hopper
 - Dispensing required quantity from weigh hopper
 - Check weighing
 - Automatic Bag filling considering precise quantity and clamping action.
 - Tank Level maintaining and many more....

Specification

Processor	32 bit ARM processor
Processor Clock	50 MHz.
Display	Two numbers 6-digit red 7-segment LED display
Power Supply	SMPS type EMI/RFI filter with spike suppressor
Fuse	750mA for AC power in
Input Voltage	90V to 270V AC @ 50Hz
Protection	RFI/EMI filter for input power Spike suppressor for input transients.
Indication	Buzzzer for fault indicaton and data entry
Output	6 inbuilt potential free relay output for driving solenoid valves/contractor switches
Digital Input	5 Digital input for connecting remote switches OR other interlocking signals.
Remote Display Port	9-pin D-shell female connector for optional ½"/1"/2.3"/4" 6-digit bright red LED display.
Serial Port	RS-232C port for computer interface or remote display interface
Keypad	16-key front mount keypad for data & function entries.
A/D Converter Resolution	Sigma Delta Type with 24 bits resolution
Conversion Speed	50 Hz
Load Cell Excitation	8V @ 300mA (up to eight load cells of 480 ohms each).
Input Signal	1 to 3 µV per division of weight
Power Consumption	10VA (approx)
Environment	Operating Temp - 0° to 55° C Humidity - upto 95% RH non condensing
Mechanical	Industrial panel mounting enclosure with sheet metal and extruded alummium section. Case size: 184 x 90 x 198 mm(W) (L) (H) Depth : 220 mm with rear panel connector Panel cut out : 184X90 mm Bezel size : 190x96 mm weight: 2.2Kg