50095 / 1.1 / 2024-12-16 / BK / NA

### Product Information BC110

# BC110 - Batch Controller

#### Introduction

The BC110 is a flow computer designed to take the pulse from a flow meter and provide a variety of functions based on it. The unit offers two configuration modes, one provides batch process control and the second is to function as a rate/totalizer. As a batch controller the BC110 offers 2 relay outputs for pump and valve control along with a sophisticated batch over-run correction to optimize the batch control accuracy. Utilizing the standard print capability the BC110 can not only control a batch, but also can be coupled to a printer to automatically provide documentation of the batch. When configured as a rate totalizer, the BC110 offers rate and total information for the measurement coupled with programmable function to the relay outputs to function as flow rate alarms or totalizer limits. Again, the print capability completes the typical totalizer operation by offering the ability to document the total. Other key features include three soft programmable inputs that can be used for remote operation of the reset, print, start, or stop functions. The bright OLED alphanumeric display shows measured and calculated parameters in easy to understand format. Single key direct access to measurements and display scrolling is supported. An EZ Setup feature rapidly guides the user through the basic setup typically required for most applications. In addition to the control functionality the BC110 has a scaled pulse output and configurable 4-20 mA flow rate output. Beyond printing, the standard RS-232 Serial Port can be used for data logging, or for connection to a modem for remote meter reading.

### **Back View**

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#### **Features**

- · EZ Setup Feature Speeds Instrument Setup
- · Advanced Batching Features, Including Quick Batching Sequence
- Two Line OLED Display
- · 4-20 mA Analog Output
- · Isolated Pulse Output
- RS-232 Port Standard
- Advanced Printing Capabilities
- Data Logging

#### **Applications**

- Ingredient batch process control
- · Rate/Totalization monitoring of product flow
- · Totalizer with Print output for quantity tracking

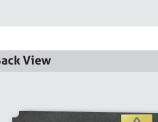
#### Options

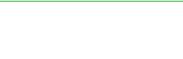
- · NEMA 4X stainless steel enclosure
- · Pre-wired pneumatic solenoid for direct air valve control





CONTROLS





## BC110

2

Panel Cutout(WxH)5.43"W x 2.68"HProtection classFrontNEMA4X / IP65 (when used with included bezel)AmbientOperating temperature Storage Temperature Lumdity32 °F to 122 °F - 40 °F to +185 °F - 0-95 % Non-condensingnputsPulse InputsOne (single or quadrature) Input Impedance: 10 KΩ nominal Irriger Level: (neru selectable) High Level: Input melectable) High Level: Input selectable) High Level: Input selectable) High Level: Input selectable (A 000 Hz or 20kHz Scaling: Average K or 16 Point linearization with separate forward and reverse tablesOitplayType OLED (Lock Level: Class 2000 Hz or 20kHz Scaling: Average K or 16 Point linearization with separate forward and reverse tablesOitplayType OLED (Line Power2 lines of 20 characters Character Size: 0.2" nominal KeypadSupply VoltageLine Power110 VAC Power: 85 to 127 Vrms, 50/60 Hz 6.5 WDutputsPulseAssignable to either Rate or 100 mSec (user selectable) Available Ranges: 4-20 mA, 0-20 mA Maximum Load: 1000 ohms (at nominal line voltage)RelayAssignable to content Sourcing Available Ranges: 4-20 mA, 0-20 mA Maximum Load: 1000 ohms (at nominal line voltage)RelayAssignable to (Individually for each relay) Low Rate Alarm, Hi Rate Alarm, Preset Alarm or General purpose warning Number or relays: 2 Contact Style: Form C contacts Contact Style: Form C contacts Contact Style: Sourd Contact Style:	Specification		
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Approvals Electrical UL/C-UL Listed (File No. E192404), CE Compliant	Materials	Housing-panel mount	Plastic, UL94V-0, Flame retardant
	Approvals	Electrical	UL/C-UL Listed (File No. E192404), CE Compliant

Order Co	Code	
BC110		
	Mounting Options P (Panel mount) E (Mounted in SS enclosure) S (Mounted in SS enclosure with prewired pneumatic solenoid) ↓	
BC110 /	/ P	

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