



PCIBC7 BATCH CONTROLLER

Specifications

Mounting	Panel Mounted
Casing	Black powder coated aluminium
Bezel	High-impact phenolic plastic
Keypad	Polyester
Environmental Protection	IP65
Dimensions	H 96mm X W 96mm X D 175.4mm
Panel Cut-out	92mm X 92mm
Weight	1.2 kgs
Power Input (Mains)	110 or 230 V AC 45-65 Hz
Power Input (DC Supply)	12 - 24 V DC / 300mA typical
Power output	8 - 24 V DC 50mA
Display	6-digit 10 / 14mm high LEDs
Temperature Range	0 - 45°C
Connections	2 rows of through panel screw terminals



Front Panel Controls

"Run"	Activates the relays to start the batch.
"Batch Set"	Allows an operator to change the preset quantity.
"Reset"	The instrument batch quantity is reset.
"Stop"	Interrupts the process. Batching can be continued by pressing "RUN" or aborted by pressing "RESET".

The **PCiBC7 batch controller** delivers any preset quantity of liquid simply, accurately and reliably in a wide range of flow control contexts.

Operation

Whether filling a container, loading a tanker or any similar task, simply press the run button; one display shows the batch count whilst the other can be set to show either the flowrate or the preset batch quantity.

Single or dual relay operations allow for the independent control of valves or pumps. Two LEDs show you when either of the two relays are energised.

Features

Displays can be set for any units (e.g. litres or gallons) and the controller can be supplied preconfigured for your application.

The overrun compensation feature allows the controller to automatically compensate for errors caused by slow-acting valves to deliver the precise volume required.

A No-Flow alarm sounds and the batch is stopped if the signal from the flowmeter stops.

A non-resettable total enables long-term usage monitoring.

The PCIBC7's standard ¼ DIN format is designed for panel-mounting.

The front keypad is housed in a splash-proof sealed unit resistant to most chemicals.

Input signals	Frequency range 0 to 5 kHz
1. Pick-off Coil	
Sine wave min.	7mV all frequencies
Sine wave max.	35V high frequency
	15V low frequency
2. Pre-amplifier	
Switch level	Low level < 8mA
	High level > 12mA
	Input current max.50mA
3. Switch	
Energising voltage	5V
Energising current	0.5 mA
4. Pulse	
Switch threshold	Selectable 2.5V or 1.4V
5. Proximity switch	Namur DIN 19234
Switch threshold	2.2V
Switch level Low level	< 1mA
High level	> 3mA

Outputs	
Scaled Pulse	Open collector switch transistor
Pulse duration	50 msec
End of Batch	Open collector switch transistor
Sink current	100 mA
Pulse duration	"On" until instrument reset
No-Flow Alarm	Open collector switch transistor
Sink current	100 mA
Detection period	Programmable 0 - 99 sec
Control Relay	2 SPDT relays
Switching voltage	250 V AC 30 V DC
Switching current	8 A

LED Status Lights	
Relay 1	Relay 1 red LED lit when energised
Relay 2	Relay 2 red LED lit when energised
Alarm	Alarm LED lit when No-Flow alarm condition detected.