INNOVEC CONTROLS PTY LTD

INNOVEC IBS BATCH CONTROLLER

The **IBS Batch Controller** is 85-265VAC or 12-40VDC powered batch controller for liquids that incorporates an eight (8) digit 10mm LED (light emitting diode) display. The instrument can be configured from the front panel to batch volumes from 0.001 to 999,999.99 litres.

FEATURES

- Batch in local or remote mode up or down from set point
- Simple touch switch programming with language statement prompts
- Accumulated total
- Low cost - High performance
- Low flow alarm with batch cancel
- Programmable end of batch signal with end of batch pulse of 0.0 to 99.9 seconds
- Pulse output per litre in batch up mode
- Dip switch selection for turbine, reed switch, open collector, Namur & CMOS logic
- Optional clear silicon boot for IP67 protection
- Applications include water treatment, dosing, food ingredient batching and bottling
- sensor supply adjustable from 8 to 20VDC
- Plug in screw terminal electrical connections
- Programmable K factor
- 85 to 265VAC 47-63 Hz universal supply or factory fitted 12 to 40VDC isolated supply
- Emc compliant

The instrument can batch up or down and provide the excitation power supply for the flow sensor, operate in local manual mode by front panel touch switches for Batch Start, Stop and Resume or remotely as these functions are available at the rear terminal strip.

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TECHNICAL SPECIFICATIONS

Input Details

- The instrument accepts an input from 0 to 2KHZ and is dip switch selectable for open collector, reed, Hall and turbine signals (from 20mV peak to peak).

Display

- The IBS incorporates an eight (8) digit 16mm digit height high contrast (OLED) display with a wide viewing angle and a viewing distance of 5 metres.

Totaliser Memory

- The instrument incorporates a background total stored in EEPROM during loss of power. This total can be displayed by the front total touch button.

Low flow alarm

- An incorporated low flow alarm. If no input pulses are received in a programmed period a alarm is activated, the batch is cancelled and LF ERR is displayed.

Environmental Parameters

- 0-70 degrees Celsius and 0-90% RH non-condensing.
- Front facia is weatherproof to IP54.
- Optional clear silicon boot to provide protection to IP67

Connection Details

Terminal 1: Input 0VDC	Terminal 13: Input 0VDC
Terminal 2: Input minus (-)	Terminal 14: Not used
Terminal 3: Input plus (+)	Terminal 15: Pulse per litre open collector output
Terminal 4: Start	Terminal 16: Low flow alarm open collector output
Terminal 5: Stop	Terminal 17: End of batch open collector output
Terminal 6: Resume	Terminal 18: Not used
Terminal 7: Reset	Terminal 19: Relay 1 Normally open contact
Terminal 8: 8V to 20VDC sensor supply	Terminal 20: Relay 1 common contact
Terminal 9: Not used	Terminal 21: Relay 1 Normally closed contact
Terminal 10: Ground supply	Terminal 22: Relay 2 Normally open contact
Terminal 11: VAC or 24VDC active supply	Terminal 23: Relay 2 common contact
Terminal 12: VAC Neutral or 0VDC supply	Terminal 24: Relay 2 Normally closed contact

Power Supply Ground Supply

- 85 to 265VAC 47-63 Hz universal supply or isolator DC input from 12 to 40VDC. A transducer power supply of 8 to 20VDC at 30mA is incorporated in the instrument.

Mounting Details

- Panel mounting plastic enclosure of 96 mm wide by 96 mm high by 118mm deep with a panel cut out of 92 mm wide by 92 mm high.

Batcher Operation

- The batch size is set from the front panel. The start button will energise output one and start liquid flow. Relay two energises when its time delay is finished. The batcher will increment / decrement until the batch is complete. Relay two can be programmed to start and stop anywhere in the batch cycle.

Ordering information

- Model/input/display/power supply/options. Sample number IBS/CC/0-99999999/VAC.