

INNOVEC

CONTROLS PTY LTD

INNOVEC IBLEXD BATCH CONTROLLER



The **IBLEXD Batch Controller** is an 85 to 265VAC or 12-40VDC powered batch controller for liquids that incorporates a 64 x 128 Graphic LCD (liquid crystal display) and RGB integrated backlight. The instrument can be configured from the front touch buttons to batch volumes from 0.001 to 999,999 litres.

FEATURES

- Batch in local or remote mode up or down from set point
- Simple touch switch programming with English statement prompts
- Low cost - High performance
- 64 x 128 Graphic LCD (liquid crystal display) and RGB integrated backlight.
- Low flow alarm with batch cancel
- Programmable end of batch signal with an end of batch pulse of 0.0 to 99.9 seconds
- Programmable delay on relay two start and pre-stop
- Batch set from front panel in programme mode or in run
- DIP switch selectable input: turbine, reed switch, open collector, Namur & CMOS logic
- Applications include water treatment, dosing, food ingredient batching
- Isolated sensor supply that can be adjusted from 8 to 20VDC
- Plug in screw terminal electrical connections
- K factor 999,999 to .01 and set point 0.001 to 999,999
- 85 to 265VAC 47-63 Hz supply or factory fitted 12 to 40VDC isolated supply



TECHNICAL SPECIFICATIONS

INPUT DETAILS

The instrument accepts an input from 0 to 1KHZ and is DIP switch selectable for open collector, reed, Hall, Namur and turbine signals (from 20mV peak to peak).

	Input Type	sw1	sw2	sw3	sw4	sw5	sw6	sw7	sw8
A	CMOS Logic Level	Off	Off	Off	Off	On	Off	Off	Off
B	Open Collector or Reed Switch	Off	Off	Off	Off	On	Off	On	Off
C	Namur Proximity [loop supply 8VDC]	Off	Off	On	On	On	Off	Off	Off
D	Reed Switch with Debounce	Off	Off	Off	Off	On	Off	On	On
E	Coil 50mV PP minimum	Off	On	Off	Off	Off	Off	Off	Off
F	Low Impedance Coil 50mV PP min.	On	On	Off	Off	Off	Off	Off	Off

DISPLAY

The IBLEXD incorporates a 64 x 128 Graphic LCD (liquid crystal display) and RGB integrated backlight, featuring a wide viewing angle and viewing distance of 5 metres. The front panel switches are approved EXD with positive action.

OPTIONAL PRINTER INTERFACE

The instrument incorporates an optional RS232 serial port to drive a ticket printer with ticket client header, batch total, accumulated total, time, date and batch number.

TOTALISER MEMORY

The instrument incorporates a background total in EEPROM memory during loss of power.

LOW FLOW ALARM

The instrument incorporates a low flow alarm. If no input pulses are received in a pre-programmed period, the low flow output becomes active, the batch is cancelled and LF ERR is displayed.

ENVIRONMENTAL PARAMETERS

- 0 to 70°C 0-90% RH non-condensing
- Front facia is weatherproof to IP66

CONNECTION DETAILS

Terminal 1:Input Common (-)	Terminal 13: Relay one normally closed contact
Terminal 2:Input Minus (-)	Terminal 14: Relay one common contact
Terminal 3:Input Plus (+)	Terminal 15: Relay two normally open contact
Terminal 4:Start	Terminal 16: Relay two normally closed contact
Terminal 5:Stop	Terminal 17: Relay two common contact
Terminal 6:Resume	Terminal 18: Permissive Input 1
Terminal 7:Reset	Terminal 19: Permissive Input 2
Terminal 8:24VDC sensor supply	Terminal 20: Permissive Input 3
Terminal 9:Open collector pulse output per litre	Terminal 21: Permissive Input 4
Terminal 10:Low flow alarm open collector output	Terminal 22: Ground Supply
Terminal 11:End of batch open collector output	Terminal 23: 85-250VAC/12-40VDC active supply:
Terminal 12:Relay one normally open contact	Terminal 24: VAC neutral or 0VDC supply (-)

POWER SUPPLY

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

MOUNTING DETAILS

- Surface mounting cast aluminium enclosure. Case dimensions 340mm wide by 380mm high by 198mm deep
- Enclosure is a Govan F35-A2: EXD IIB T6 IP66 [IECEX and Atex Approval]

Batcher Operation

The batch size is set in from the front panel. Pressing the start button will energise output relay one and start liquid flow. Relay two will energise after its time delay value is exceeded. The batch progresses to the finish with pre-stop on relay two starting the end of batch output. The batch can be halted with the stop button and restarted which will cause the batch to continue from where it was stopped.

ORDERING INFORMATION

- Model Structure: model/input/display/power supply/options
- Sample Number: IBLEXD/B/0-999999/VAC