

The EB *Ecobatch* high speed batch controller is specifically designed to operate with common pulse producing flowmeters such as positive displacement, turbine, mass, vortex or magnetic style. The instrument displays batch value, batch progress & cumulative total in engineering units as programmed by the user, it also logs the total number of batches performed. *Ecobatch* scrolls messages to prompt the user at each stage of operation. Batch limiting and no-flow detection are "feature safeguards" against erroneously high batch entries, loss of the flow input signal or control valve or pump failure.

Features

- Large 8 digit LCD batch total display & cumulative totaliser
- Robust IP66 field mountable housing with protection cover or DIN panel mount version
- Simple flow chart touch key programming
- Scaleable universal high speed pulse & frequency flow inputs
- Two stage control available for soft start & close sequencing PIN protected programming
- Automatic overrun compensation Missing pulse (no flow) alarm
- Maximum batch size limiting
- Non volatile memory
- Multiple batcher interlock function (network up to 10 controllers)
- Reverse polarity protection

Options

- AC power + SPDT control relays
- Ecobatch batching systems

Also available

- Battery totalizers
- Flow rate totalizers

Control outputs

DC powered models have two solid state 1A NPN current sinking control outputs, AC & DIN models have two single pole double throw (SPDT) 5A relays. These two independent outputs can be programmed to provide stepped control at the start and/or end of each batch. An Automatic overrun compensation feature corrects for any batch errors attributed to slow closing valves or flow rate deterioration.

Programming

Simple PIN protected flow chart programming with English prompts guide you through the programming routine greatly reducing the need to refer to the instruction manual.



Network interlocks

As many as 10 *Ecobatch* controllers may be networked together with one common flowmeter for applications where one liquid is being dispensed to a number of individually operated outlets. *Ecobatch* will also take an "inhibit start" input signal from other control or plant equipment.

Specifications

Liquid crystal display (LCD)

9mm high alpha numeric characters + subscripts

Batch & accumulated totals

8 digit, programmable to 3 decimal places

Engineering units displayed

Gallons, litres, m³, lbs, kgs or no eng. units displayed

Input types (pulse & frequency)

Reed switch, open collector, coil (15mV P~P min.)

Namur & other proximities. Max. frequency 10Khz

Input scaling range

0.001~9,999,999.999 with 3 floating decimal points

Control outputs

Two 1A NPN open collectors, 24Vdc max.

Two SPDT 5A relays (with AC & DIN powered versions)

Alarm output

No flow alarm - 1A open collector

NPN/PNP selectable - 24Vdc max.

Operating temperature

14 to 176°F (-10 to +80°C) refer to factory for higher temp.

Power requirements

12 - 24Vdc, 50mA, 95 - 260Vac options

Status interlocks Batch

status output, batch inhibit input, network looping

Enclosures (two styles)

IP66, NEMA 4X GRN field mount or DIN panel mount

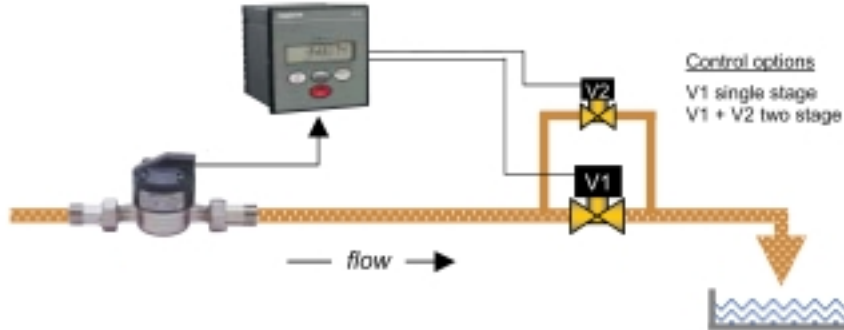
Mounting

Meter & stem mount, wall, surface, pipe or panel mount

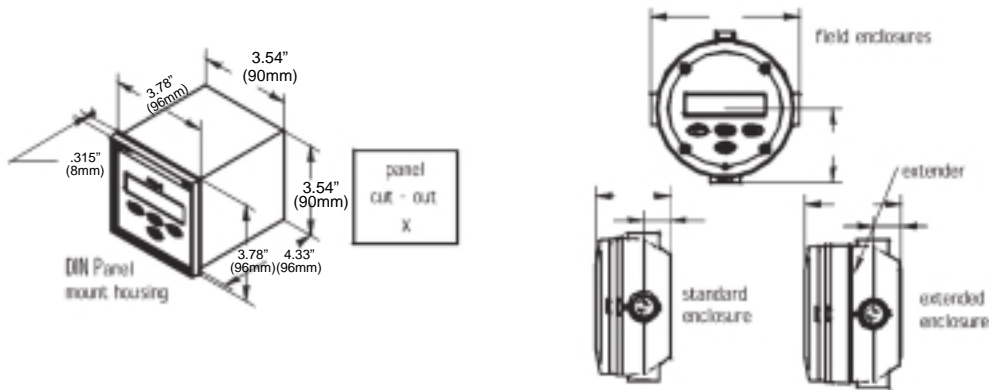
Batching systems

Ecobatch with flowmeter & control valve eg: UM020system, 1-18.5 gal/min (1 - 70 L/min), 145 PSI (10 bar), 194°F (90°C)

Single or Two Stage Controls



Dimensions



Ordering Information

EB10#	Single & two stage high speed batch controller (cumulative & batch totals)		
<i>Input Type</i>			
D	Digital (pulse or frequency)		
<i>Power Supply</i>			
0	12-24Vdc, 50mA	1	95-135Vac
		2	190-260Vac
<i>Housing Type</i>			
FM	Universal mount (field, surface, pipe, wall, stem or panel mount)		
MM	Integral meter mount		
PM	DIN panel mount 3.78" x 3.78" x 4.33" (96 x 96 x 110mm) 3.58" x 3.58" (91mm x 91mm) Cut out		

Mounting



www.fmcinvalco.com

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

FMC INVALCO Fluid Control Stephenville, TX 76401, Phone: 254/968-2181, FAX: 254/968-5709, Toll Free: 800/468-2526
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