# EB Series Batch Controllers

**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.

### 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.

### 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.

### Programming

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

## 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
- Saleable 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)
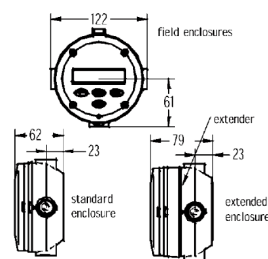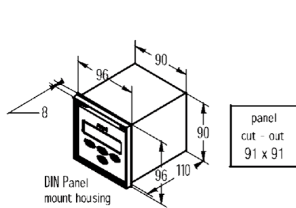- Reverse polarity protection

### Options
- AC power + SPDT control relays
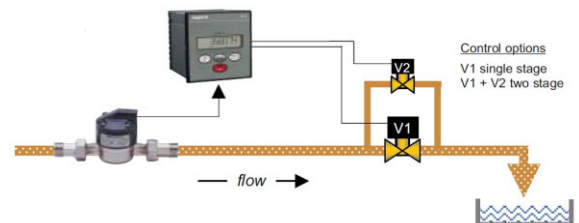- Ecobatch batching systems

## Specification

| | |
|---|---|
| Liquid crystal display ( LCD ) | 9mm high alpha numeric characters + subscripts |
| Batch & accumulated totals | 8 digit, programmable to 3 decimal places |
| Engineering units displayed | litres, gallons, 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 | -10~+80°C (14~176°F) , refer 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: UM020 |
| | system, 1~70 L/min, 10 bar, 90°C ( see front page photo ) |

## Over all Dimensions

## Single or two stage control



## Ordering Information

(# = electrical entries: 1 = M20, 2 = 1/2" NPT, 0 = DIN housing with terminals)

| EB10# | Single & two stage high speed batch controller ( cumulative & batch totals ) |
|---|---|

*Input type*

| D | digital ( pulse or frequency ) |
|---|---|

*Power supply*

| 0 | 12~24Vdc, 50mA | 1 | 95~135Vac | 2 | 190~260Vac |
|---|---|---|---|---|---|

*Housing type* (mounting accessories available)

| FM | universal mount ( suites field, surface, pipe, wall, stem or panel mount ) |
|---|---|
| MM | integral meter mount |
| PM | DIN panel mount 96 x 96 x 110mm deep (91 x 91mm cut out) |

**Other Instruments also available:**
- Flow Rate Totalisers (FRT)
- Flow rate totaliser with backlit large digit LCD, alarm & scalable outputs (RT40)
- Rate totaliser with 4~20mA, alarm & scalable outputs, dual flow inputs & linearization (RT12)

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