

EB40 BATCH CONTROLLER



PRODUCT MODELS

Model No.	Description
EB401D0FA	Field Mount Batch Controller - Aluminum housing
EB401D0FA-R	Field Mount Batch Controller w/ 5A Mechanical Relay - Aluminum housing
EB401D0MA	Meter Mount Batch Controller - Aluminum housing
EB401D0MA-R	Meter Mount Batch Controller w/ 5A Mechanical Relay - aluminum housing
EB406D0FM	Field Mount Batch Controller - glass-reinforced nylon housing
EB406D0FM-R	Field Mount Batch Controller w/ 5A Mechanical Relay - glass-reinforced nylon housing
EB406D0MA	Meter Mount Batch Controller - glass-reinforced nylon housing
EB406D0MA-R	Meter Mount Batch Controller w/ 5A Mechanical Relay - glass-reinforced nylon housing

APPROVALS / WARRANTY



The **FLOMEC EB40 Single-Stage Batch Controller** combines simple installation and operation with powerful advanced features contained in a rugged durable housing, making it the perfect solution for a wide range of batching applications.

Take control with our intuitive 4-button interface. Easily program your desired batch volume and let the controller do the rest. The bright, backlit 6-digit display provides clear visibility, even in challenging environments.

With a weather-resistant IP65 or IP66/67 and NEMA4X enclosure, you can trust the EB40 Batch controller to perform reliably, indoors or out. Upgrade your batching process today and experience the difference!

FEATURES / BENEFITS

- Store up to 10 frequently used recipes for quick and easy recall with a batch memory table
- Non-linear correction for accurate measurements across a wide flow range
- Prevent costly overruns with built-in limits and overrun correction
- Enhance safety with an optional interlock that prevents operation without a receiving vessel
- Built-in diagnostics simplify installation and troubleshooting
- Maintain control with automatic no signal detection ensuring flow meter or input wiring failure does not result in uncontrolled batching
- Quadrature input allows measurement of bi-directional flow (with suitable flow meter)
- Universal inputs compatible with most positive displacement or turbine flow meters

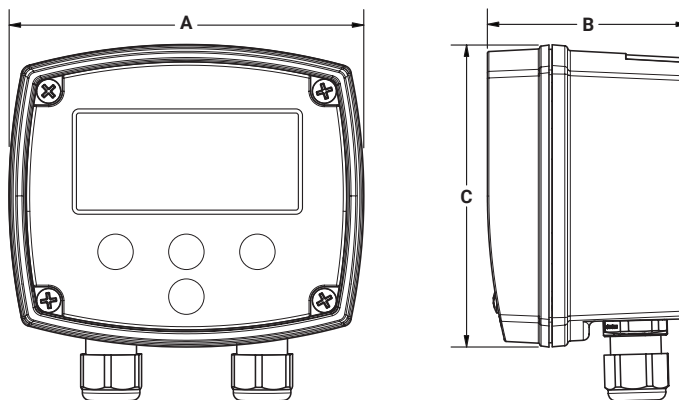
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SPECIFICATIONS

Physical:	Glass reinforced Nylon (PA6) with a Polycarbonate lens, Santoprene gasket, polyester decal. Enclosure provides an IP rating of IP66/67 for GRN housing and IP rating of 65 for Aluminum housing Optional powder coated Aluminum enclosure
Operating Temperature:	-30°C ~ +80°C (-22°F ~ +176°F)
Electrical Entries:	3 entries - M16 x 1.5 conduit thread
LCD Display:	Large dual line LCD with 6 characters x 17 mm high on top line 8 characters 7 mm high on bottom line. Backlight available with external DC power
Units:	Units are selectable for Litres, Cubic Metres, US Gallons, Imperial Gallons, Millilitres (Cubic Centimetres), Quarts, Fluid Ounces, Cubic Feet, Barrels, Kilograms, Pounds, or Custom Units of mass are configured by setting a units/ litre conversion value in the configuration menu
Flow meter Input Signals:	Pulse/frequency input compatible with pulse signals from most flow meters
Compatible Flow Meter Sensors:	Reed Switch – 120Hz maximum NPN (hall effect sensor) – 2kHz maximum Variable Reluctance Coils (Turbine Flow meters) – 2kHz maximum Weigand Sensors (voltage pulse signals) – 2kHz maximum Minimum signal amplitude for Coil signals is 15mV pk-pk
Sensor Power:	12V regulated sensor supply is available with external DC power applied
Safety Interlock Input:	Normally open (NO) dry contact, switch, or reed switch input
External Switch Inputs:	Momentary normally open (NO) switch input Four inputs for remote access to all operator keys
Battery Power:	AA (14505) 3.6V Lithium Thionyl Chloride Battery Expected battery life is 10 years as a back-up battery
External DC Power:	Regulated 12V ~ 30V DC Typical current draw on external power is 100mA across this voltage range
Digital Output:	NPN (open collector, sinking) output, 30V dc / 1A maximum
Relay Output (Optional):	Optional mechanical relay for high current DC loads: 30V dc / 5A maximum External equipment is required for AC loads (wiring diagram 4.4.4)
Standards:	FCC 47CFR 15:2024 Telecommunication, Radio Frequency Devices ICES-003: 2020 Issue 7, Information Technology Equipment (Including Digital Apparatus) - Limits and Methods of Measurement ENIEC 61326-1:2021 Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements

DIMENSIONS

Dimension "A"	Dimension "B"	Dimension "C"
4.5 in. (11.43 cm)	2.6 in. (6.6 cm)	3.9 in. (9.9 cm)



FLAMEC® CDS Configure/Diagnostics Software

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