

EBC2C ELECTRONIC BATCH CONTROLLER

AC powered totalizer, rate indicator, and batch controller

Cutout: 3.62" W x 1.77" H



Mechanical

Cutout Dimensions:	3.62" W x 1.77" H (92 mm x 45 mm) DIN
Outline Dimensions:	4.04" W x 2.19" H x 3.87" D (103 mm x 56 mm x 98 mm)
	3.60" (92 mm) maximum depth in panel
Enclosure:	Engineered plastic with polyester front label
Connectors:	Four removable user-friendly terminal blocks

Input power

Input Power:	85-265 VAC, 47-63 Hz, 20 VA
External Fuse:	0.2 A, 250 VAC,
Time Delay	(T200 mA, 250 V)
Isolation Dielectric Strength:	2300 VAC

Environmental

Operating Environment:	Indoor use to 6562 ft (2000 m)
Temperature:	Operating: 32°F to 122°F (0°C to 50°C) Storage: -4°F to 158°F (-20°C to 70°C)
Humidity:	0 to 85% RH, non-condensing
Vibration:	2.5 g's, 30 to 200 Hz
Shock:	30 g's, 11 msec half sine wave
EMC:	Immunity to EN 50082-2 (Heavy Industrial) Emissions to EN 50081-2 (Heavy Industrial)
Front Panel:	NEMA 4X when mounted with gasket provided
Approvals:	UL, cUL listed, CE compliant, Pollution Degree 2 Over voltage category II

The EBC2C is an AC powered totalizer, rate indicator, and batch controller. It has both single relay output to a standard solenoid and dual relay output for use with dual valve batch control systems, dual stage solenoids, or bi-directional solenoids with auxiliary limit switches. A six character, red LED display shows totalizers and rate of flow and allows the user to program the unit using the tactile push buttons.

Programming mode includes five menus to set count factors, scaling factors, as well as the batch controller's preset outputs, counter presets, resets, and timers. The unit utilizes non-volatile memory, so your programming settings remain intact even in the event of a power loss.

Other features include:

- Standard 1/8 DIN cut out
- Both uni-directional and quadrature count input
- Scaleable solid state or contact count inputs
- 10 kHz max count input frequency
- Front panel or remote reset
- 6 digit, LED display, 0.56" high characters
- Rate indication
- Two form-C relay outputs
- Nema 4X
- UL, cUL listed, CE compliant

All wiring for the EBC2C is done to the rear of the counter with removable connectors. Four terminals include 85-265 VAC power supply; meter inputs from dry contact reed switches, opto-electric pulsers, and other pulse output devices; control inputs including programming lock; and relay / transistor outputs. Wiring diagrams are available upon request. Plant in Ocala, Florida.



Relay/Transistor outputs

Number:	2 relays
Relay Contact Type:	1 set form C per relay
Relay Contact Rating:	5A, 250 VAC or 30 VDC

Human interface

Display:	6 digits
Type:	0.56" high, seven segment, red LED

Data Retention

Memory Type:	EEPROM, no batteries required
Duration:	100 years

Count signal input/Count inhibit signal input

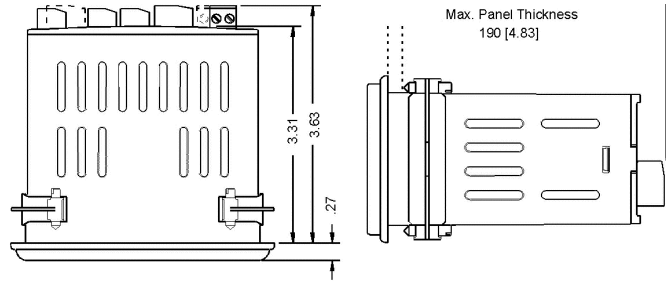
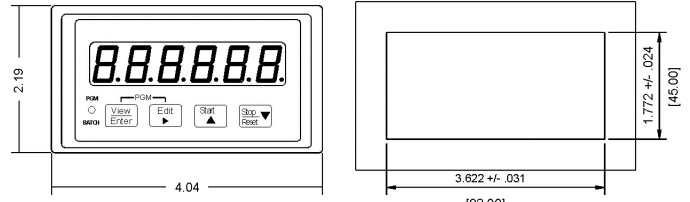
Sensor Type:	Sink or source, DIP switch selectable
Input Impedance:	4.75 Kohms to +5 VDC or 34.9 Kohms to ground
Thresholds:	High 3.5 to 28 VDC, low 0 to 1.9 VDC, for single ended signals
Magnetic Pickup Range:	50 mV p-p to 65 VRMS into 34.9 Kohms
Slow Response:	50 Hz max. (DIP switch 2 and/or 5 ON)
Fast Response:	10 kHz

Control Inputs

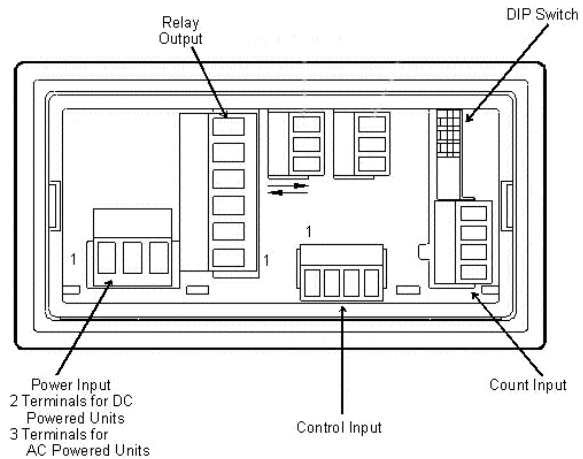
Sensor Type:	Sink only
Input Impedance:	4.75 Kohms to +5 VDC
Thresholds:	High 3.5 to 28 VDC, low 0 to 1.0 VDC
Response:	25 msec maximum (5V signal)

Accessory Power Output

Voltage:	12 VDC ±12%
Current:	75 mA max.
Protection:	Short circuit protected



Rear Terminal Layout



Elster AMCO Water, Inc.
 PO Box 1852
 Ocala, FL 34478-1852
 United States

T +1 800 874 0890
 F +1 352 368 1950

watermeters@us.elster.com
 www.elster.com

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