

## West Process Controller



- Single or Two Loop
- Graphical & Text LCD Display
- USB, RS485, Ethernet
- Profiling & Datalogging Options
- 1/4 DIN Size
- 4 Plug-in Module Slots
- UL, CE

Pro EC44

Simplifying user operation with an intuitive HMI, fast access front USB port and easy-to-use configuration and simulation software, Blue Control©.

### SPECIFICATIONS

Input 1 & 2:	T/C: J, K, T, E, R, S, D, B, C, L, N, PtRh RTD: 3-wire Pt100, Ni120 DC: 0-50mV, 10-50mV, 0-5V, 0-10V, 1-5V, 2-10V, 0-20mA, 4-20mA
Aux. Input:	0-5V, 0-10V, 1-5V, 2-10V, 0-20mA, 4-20mA
Loops:	1 or 2 control loops
Control:	ON/OFF, PID heat only & Heat/Cool, Valve Motor Drive, Ratio, Cascade
Profiler:	255 segment profiler shared in 64 programs
PID:	5 PID sets manual or automatic gain scheduling
Alarms:	7 can be set as high, low, deviation, band, control loop, rate of change. Also alarms for sensor break, recorder memory, power
Datalogging:	1sec - 30min interval, non-volatile memory, real time clock
USB:	Host for configuration (read/write) and logged data (read)
Modbus:	Ethernet Modbus TCP; RS485 Modbus RTU (Master/Slave)
I/O:	Up to 2 analog inputs, 9 digital inputs, remote setpoint input; 9 outputs (relay, SSR drive, triac, linear DC, excitation)
Display:	160x80 graphic LCD with red/green backlight, 66x37mm

### ORDERING INFORMATION

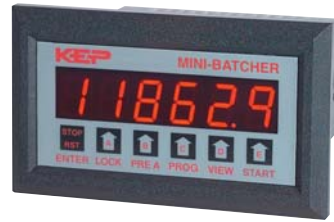
To Order- Insert Code for Each Letter to Select Catalog Number.

Example: EC44-0-C-P-0-2-1-1-8-1-T-1-0-1

EC44-0- **A** - **B** - **C** - **D** - **E** - **F** - **G** - **H** - **I** - **J** - **K** - 1

<b>A</b> Type	C Controller	<b>H, I</b> Plug-in Module Slot 2 & 3	0 None
	U Controller with USB		1 Relay Output SPDT
	X Controller/Recorder (Datalogger)		2 DC SSR Drive
	R Controller/Recorder w/USB		Y Dual DC SSR Drive Output
<b>B</b> Profiler			8 Triac Output
	0 None		9 Dual relay Output SPST
	P Profiler		T 24VDC Transmitter Supply
<b>C</b> Power Supply		<b>J</b> Plug-in Slot A	0 None
	0 100-240V AC		1 RS485 Modbus RTU
	2 24-48V AC/DC		3 1 Digital Input
<b>D</b> Control Loops			4 Auxiliary Input
	1 One		5 Ethernet Modbus TCP
	A One + Auxiliary	<b>K</b> Option C	0 None
	2 Two		1 8 Digital Inputs
<b>E</b> Base Option 1			
	1 Relay Output SPST		
	M Relay + Linear DC Out		
<b>F</b> Base Option 2			
	0 None		
	M Relay + Linear DC Out		
<b>G</b> Plug-in Module Slot 1			
	0 None		
	1 Relay Output SPDT		
	2 DC SSR Drive		
	L Linear DC Output		
	8 Triac Output		

## KEP Batch Controller



MB2

- Display Rate, Batch Size and Number of Batches or Grand Total
- 5 Digit Scaling Factor
- Pulse Input
- 2 Relay Outputs
- Analog Output or Serial/Modbus Options
- NEMA 4X / IP65 Front Panel

The Mini-Batcher is a 6 digit totalizer and 4.5 digit ratemeter with two relay outputs. One output is dedicated to the batch amount (Preset A), the other can be activated for Prewarn or Batch/Grand Total. The unit can count up to the preset (reset to 0) or down from the preset (set to preset). Start, Stop and Reset functions can be activated from the front panel or remote inputs.

Up to 247 units can communicate to a host computer using Modbus RTU protocol. Alternately, an analog output (assignable for Rate or Batch Amount) can be ordered for data logging.

### SPECIFICATIONS

Display:	6 digit, 0.55" high LED
Input:	Pulse, 50VDC max, 10kΩ resistance
Ratemeter Display:	Units per second, minute or hour
Accuracy:	0.01% FS (±1 digit)
Sampling Rate:	2 to 24 seconds
Scaling Factor:	0.0001 to 99999 (converts input pulses to engineering units)
Presets:	Two, 5 digits each
Front Panel Lockout:	Complete locked out (except Start/Stop) or the presets can remain accessible
Relays:	Two N.O. 5A, 120/240VAC or 28VDC. (N.C. contacts and NPN transistor output available with solder jumpers)
Relay B On Time:	0.01 to 99.99 sec. or latched (0.00 setting)
Power Consumption:	6.5VA AC or 250mA DC max.
Output Power:	+12VDC @ 50mA, unregulated -10 + 50% (AC powered units only)
Operating Temperature:	0-54°C (32-130°F), <90% RH, non-condensing
Memory:	EEPROM stores data for 10 years if power is lost
Dimensions:	4.44"W x 2.63"H x 4.25"D (113 x 67 x 108mm)
Cutout:	3.622" x 1.772" (92 x 45mm)

### ORDERING INFORMATION

To Order—Insert Code for Each Letter to Select Catalog Number.

Order Example: KE/MB2C34

KE/MB2	<b>A</b>	<b>B</b>	<b>C</b>
<b>A</b> Operating Voltage	A 110 VAC ±15% or 12-15 VDC	B 220 VAC ±15% or 12-15 VDC	C 24 VAC ±15% or 12-15 VDC
<b>B</b> Count Inputs	3 4-30 VDC or 0-1VDC pulse, 10kHz max.	3M 30mV mag. pickup, 5kHz max.	
<b>C</b> Options	1 RS232 Comm., KEP protocol	2 RS422 Comm., KEP protocol	3 RS232, Modbus RTU
	4 RS422/RS485, Modbus RTU	A Analog Output (4-20/0-20 mA)	