

MBC Boiler Controller Series

Controllers from PULSAtrolE MBC series continuously protect boiler systems from the harmful effects of scaling and corrosion. They are designed using advanced microprocessor technology and the latest in surface mount assembly techniques. The result is amazing versatility in a compact, reasonably priced controller package. The units are easy to program using the clearly labeled keyboard and the bright alpha-numeric display.

Key Features:

- A high resolution 10 bit A/D converter and adjustable analog sample sensitivity for greater accuracy from all sensor inputs.
- Fully isolated differential inputs for all circuits help prevent the possibility of ground loops.
- Keyboard activated hand/off/auto control of all relay outputs.
- Modular hardware and software for easy access and servicing.
- A prewired NEMA type 4X enclosure for protection from harsh environments.
- Optional features include a serial line communications and the capability to control.
- Bi-lingual programs.



Series 300

Selections

STANDARD FEATURES			AVAILABLE FOR OPTIONS						
		analog in	digital in	analog out	dry contact	relay out	serial comm		
110	Cond. control w/ selectable sample mode, 1 line display (continuous or timed)	0	1	1	1	2	0		
210	Cond. control w/ selectable sample mode, 2 line display (continuous or timed)	1	2	2	1	3	1		
310	Cond. control w/ selectable sample mode, 8 line display (continuous or timed)	2	2	2	1	3	1		

Options*

		SERIES	REQUIRED FOR OPTIONS					
			analog in	digital in	analog out	dry contact	relay out	serial comm
A	Conductivity: In-line type Max. Press. 250 psi, Max. Temp. 400°F, Stainless steel Temp. Comp.	100/200/300						
С	Selectable timer: percent, limit, pulse w/ accumulator	100/200/300		1			1	
D	Alarm output relay (100 Series requires relay out)	100/200						
Ε	Additional Boiler Controller	100/200/300	1				1	
K	Alarm dry contact (100 Series requires relay out)	100/200/300				1		
L1	Serial line communication	200/300						1
L2	Serial line communication & modem (120v)	200/300						1
L3	Alarm call out (requires a modem, L2 option)	200/300						
L4	No Serial Line Communication Software	200/300						
М3	One 4-20 mA isolated proportional programmable output	100/200/300			1			

^{*}For additional information about PULSAtrol Model and available options see Reference Guide No. RGP-001.

PULSAtrolE MBC Controller Series







SURFACE MOUNT TECHNOLOGY (SMT) circuit board design provides higher

quality and dependability

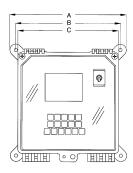
Series 300

PULSAtrolE Specifications

FEATURES/CONTROLLERS SERIES 100 SERIES 200 SERIES 300 Nema 4X - High Impact Nema 4X - High Impact Nema 4X - High Impact Enclosure Resistant PVC Resistant Polystyrene Resistant Polystyrene Power Requirements 90 - 250 VAC @ 50/60 Hz, 100 VA 90 - 250 VAC @ 50/60 Hz, 100 VA 90 - 250 VAC @ 50/60 Hz, 100 VA Control Output Line Voltage @ 600 VA Line Voltage @ 600 VA Line Voltage @ 600 VA Per Relay (5 amps @ 120 VAC) Per Relay (5 amps @ 120 VAC) Per Relay (5 amps @ 120 VAC) Display 1 X 8 Alpha Numeric, 2 X 16 Alpha Numeric, 64 X 128 Pixels Dot Matrix, Lighted Display Back Lit Display Back Lit Graphics Display N/A Standard Recessed Front Panel Power Switch Standard Lockable Viewing Window N/A Standard Standard Hi/Lo Alarm Indicator Standard Standard Standard Standard 10 Bit A/D resolution Standard Standard 0 - 14 pH 0 - 14 pH 0 - 14 pH Standard pH Scale 0-500, 0-2,000, 0-5,000, 0-500, 0-2,000, 0-5,000, 0-500, 0-2,000, 0-5,000, Standard Conductivity Scale 0-10,000 and 0-20,000 $\mu\text{S/cm}$ 0-10,000 and 0-20,000 μS/cm 0-10,000 and 0-20,000 $\mu S/cm$ Standard ORP Scale 0-1000 mV 0-1000 mV 0-1000 mV Front Panel H/O/A Control Standard Standard Standard Analog Inputs One Two Four Digital Inputs Two Three Four **Analog Outputs** One Two Two Alarm Dry Contacts One One One Relay Outputs Three Four Six Timers Programmable Programmable Programmable Security Code N/A Standard Standard Accuracy - At point of measure +/- 1% +/- 1% +/- 1% excluding sensor Maximum Pressure of Standard 200 PSI @ 70° F 200 PSI @ 70° F 200 PSI @ 70° F 125 PSI @ 125° F 125 PSI @ 125° F 125 PSI @ 125° F Flow Assembly 8.62 Bars @ 52° C 8.62 Bars @ 52° C 8.62 Bars @ 52° C Sensors Consult Factory Consult Factory Consult Factory Differential Programmable Programmable Programmable Glass Filled Polypropylene Glass Filled Polypropylene Standard Plumbing Glass Filled Polypropylene (GFPPL) Slip or Threaded (GFPPL) Slip or Threaded (GFPPL) Slip or Threaded 0 - 125° F Electronic Environment 0 - 125° F 0 - 125° F -17.8 - 52° C -17.8 - 52° C -17.8 - 52° C 100% Humidity 100% Humidity 100% Humidity Controller Weight 6 lbs (2.5 kgs) 8 lbs (3.7 kgs) 8 lbs (3.7 kgs)

Dimensions

Shipping Weight



8 lbs (3.7 kgs)



10 lbs (4.6 kgs)

DIMENSION	SERIES 100	SERIES 200	SERIES 300
А	7.00 in.(sq.)	10.00 in.(sq.)	10.00 in.(sq.)
A	17.78cm	25.40cm	25.40cm
В	6.00 in.(sq.)	8.99 in.(sq.)	8.99 in.(sq.)
ь	15.24cm	22.83cm	22.00cm
С	5.75 in.(sq.)	8.66 in.(sq.)	8.66 in.(sq.)
C	14.60cm	22.00cm	22.00cm
D	6.50 in.	7.08 in.	7.08 in.
Ь	16.5cm	17.98 cm	17.98cm
Controller	6 lbs.	8 lbs.	8 lbs.
Weight	2.5kgs	3.7kgs	3.7kgs
Shipping	8 lbs.	10 lbs.	10 lbs.
Weight	3.7kgs	4.6kgs	4.6kgs

10 lbs (4.6 kgs)

An ISO 9002 System-Certified Company

PULSAFEEDER®

A Unit of IDEX Corporation



Patent #5,398,711

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