DUDGATO

MCT Cooling Tower Controller Series

Controllers from PULSAtrolE MCT series continuously protect cooling systems from the harmful effects of scaling, corrosion, and microbiological growth. 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 simple to program using the clearly labeled keyboard and the bright alphanumeric display. And PULSAtrol's distinctive receptacle cords make easy to connect any electrical device being controlled.

Key Features:

- A high resolution 10 bit A/D converter and adjustable analog sample sensitivity for greater accuracy from all sensor inputs.
- Control TDS, pH or ORP.
- 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.

Series 300

Selections

	STANDARD FEATURES		AVAILABLE FOR OPTIONS					
		analog in	digital in	analog out	dry contact	relay out	serial comm	
110	Conductivity control with Hi/Lo Alarm Indicator	0	1	1	1	2	0	
120	pH Control with Hi/Lo Alarm Indicator	0	1	1	1	2	0	
130	ORP Control with Hi/Lo Alarm Indicator and Limit Timer	0	1	1	1	2	0	
210	Conductivity control with Hi/Lo Alarm Indicator	1	2	2	1	3	1	
220	pH Control with Hi/Lo Alarm Indicator, Limit Timer & Flow Assembly	1	2	2	1	3	1	
230	Conductivity and pH Control with Flow Assembly Conductivity - Hi/Lo Alarm Indicator and Selectable Timer pH - Hi/Lo Alarm Indicator and Limit Timer	0	1	2	1	1	1	
310	Conductivity control w/ Hi/Lo Alarm Indicator, Alarm Relay & Selectable Timer	3	2	2	1	4	1	
320	pH Control with Hi/Lo Alarm, Alarm Relay, Limit Timer & Flow Assembly	3	3	2	1	5	1	
330	Conductivity & pH Control with Flow Assembly Conductivity - Hi/Lo Alarm Indicator, Alarm Relay and Selectable Timer pH - Hi/Lo Alarm Indicator, Alarm Relay and Limit Timer	2	2	2	1	3	1	

Options*

		SERIES	REQUIRED FOR OPTIONS					
			analog in	digital in	analog out	dry contact	relay out	serial comm
А	Conduit (Required for 220 V)	100/200/300						
в	Mounted flow assembly (not req'd on prefab's)	100/200/300						
B0	No flow assembly	200/300						
B1	High pressure flow assy for cond., 250 psi Max.	100/200/300						
B2	High pressure flow assy for pH, 250 psi Max.	100/200/300						
B3	High pressure flow assy for pH/cond., 250 psi Max.	200/300						
B4	High pressure flow assy for orp, 250 psi Max.	100						
B6	High pressure flow assy for pH/orp, 250 psi Max.	200/300						
B7	High pressure flow assy for pH/orp/cond., 250 psi Max.	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						
E	28 day single biocide w/ bleed lockout & pre-bleed	100/200/300					1	
F	28 day dual biocide w/ bleed lockout & pre-bleed	200/300					2	
G	28 day triple biocide w/ bleed lockout & pre-bleed	200/300					3	
н	Make-up water cond. isolated (requires cond. Control)	200/300	1					
I	ORP isolated (requires pH)	200/300	1				1	
к	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						
M3	One 4-20 mA isolated proportional programmable output	100/200/300			1			
т	pH remote preamplifier w/ power supply (w/ 50 ft. power cord)	100/200/300						
T1	pH remote preamplifier with battery pack	100/200/300						

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



PULSAtrolE MCT Controller Series





Series 100

Series 200





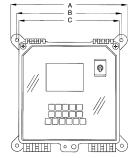


Modular Flow Assembly

PULSAtrolE Specifications

FEATURES/CONTROLLERS	SERIES 100	SERIES 200	SERIES 300		
Enclosure	Nema 4X - High Impact Resistant PVC	Nema 4X - High Impact Resistant Polystyrene	Nema 4X - High Impact 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 Per Relay (5 amps @ 120 VAC)	Line Voltage @ 600 VA Per Relay (5 amps @ 120 VAC)	Line Voltage @ 600 VA Per Relay (5 amps @ 120 VAC		
Display	1 X 8 Alpha Numeric, Lighted Display	2 X 16 Alpha Numeric, Back Lit Display	64 X 128 Pixels Dot Matrix, Back Lit Graphics Display		
Recessed Front Panel Power Switch	N/A	Standard	Standard		
Lockable Viewing Window	N/A	Standard	Standard		
Hi/Lo Alarm Indicator	Standard	Standard	Standard		
10 Bit A/D resolution	Standard	Standard	Standard		
Standard pH Scale	0 - 14 pH	0 - 14 pH	0 - 14 pH		
Standard Conductivity Scale	0-500, 0-2,000, 0-5,000, 0-10,000 and 0-20,000 μS/cm	0-500, 0-2,000, 0-5,000, 0-10,000 and 0-20,000 μS/cm	0-500, 0-2,000, 0-5,000, 0-10,000 and 0-20,000 μS/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	Тwo	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 excluding sensor	+/- 1%	+/- 1%	+/- 1%		
Maximum Pressure of Standard Flow Assembly	200 PSI @ 70° F 125 PSI @ 125° F 8.62 Bars @ 52° C	200 PSI @ 70° F 125 PSI @ 125° F 8.62 Bars @ 52° C	200 PSI @ 70° F 125 PSI @ 125° F 8.62 Bars @ 52° C		
Sensors:	Consult Factory	Consult Factory	Consult Factory		
Differential	Programmable	Programmable	Programmable		
Standard Plumbing	Glass Filled Polypropylene Glass Filled Polypropylene (GFPPL) Slip or Threaded (GFPPL) Slip or Threaded		Glass Filled Polypropylene (GFPPL) Slip or Threaded		
Electronic Environment	0 - 125° F -17.8 - 52° C 100% Humidity	0 - 125° F -17.8 - 52° C 100% Humidity	0 - 125° F -17.8 - 52° C 100% Humidity		
Controller Weight	6 lbs (2.5 kgs)	8 lbs (3.7 kgs)	8 lbs (3.7 kgs)		
Shipping Weight	8 lbs (3.7 kgs)	10 lbs (4.6 kgs)	10 lbs (4.6 kgs)		

Dimensions





DIMENSION	SERIES 100	SERIES 200	SERIES 300	
А	7.00 in.(sq.)	10.00 in.(sq.)	10.00 in.(sq.)	
	17.78cm	25.40cm	25.40cm	
В	6.00 in.(sq.)	8.99 in.(sq.)	8.99 in.(sq.)	
В	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.	
D	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	

Patent #5,398,711

An ISO 9002 System-Certified Company **SPULSAFEEDER** A Unit of IDEX Corporation **SEX** (150) (150



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