

PULSATROL MC9000 SERIES

The PULSATrol® 9000 Series cooling tower controllers represent a significant improvement in the PULSATrol product line. We have simplified the configurations to bring you the most popular features as standard without compromising the flexibility to select the product you need to meet your specific requirement. All controllers come standard with a complete flow assembly mounted to a polypropylene backboard. All the installer needs to do is mount the assembly to the wall and connect the power and water.

MC9200 Series

In addition to the mounted flow assembly, all MC9200 Series include as standard, a pre-wired selectable timer, alarm output relay, dry contact alarm output and water meter totalizer. Options include up to two 28-day biocide timers, single or dual 4-20 mA outputs, communications and agency approvals.

MC9200 Series Selection Guide			MC92__	-	-	-	-	-	-
MODELS: Position 5 & 6	\$1,720 \$1,840 \$2,255	10 = Conductivity control 20 = pH control 30 = Conductivity and pH control							
RELAY & POWER WIRING Position 7	N/C N/C	X = Prewire (Standard) (Not available with CE Approval) A = Conduit only (required for CE Approval)							
TIMER 1 Position 8	N/C \$ 102 \$ 119	X = None A = Single 28 day biocide timer B = Dual 28 day biocide timer (not available on MC9230)							
ANALOG I/O Position 9	N/C \$ 178 \$ 296	X = None A = Single isolated 4-20mA output B = Dual 4-20mA outputs							
COMMUNICATIONS Position 10	N/C \$ 593 \$ 771	X = None A = Serial line communications, includes software B = Communications with modem and software							
AGENCY APPROVAL Position 11	N/C N/C N/C	X = None A = ETL Approval (conduit on inlet power) B = "CE" Approval							
PANEL ASSEMBLY Position 12	N/C \$ 713 \$ 771 \$ 713 \$ 771	FOR DETAILS ON OPTIONAL PANEL CONFIGURATIONS, SEE PAGE 15. X = Standard Panel with flow assembly A = Conductivity panel, prewire B = Conductivity, pH panel, prewire C = Conductivity panel, conduit (must select conduit option in position 7 of model string) D = Conductivity, pH panel, conduit (must select conduit option in position 7 of model string)							
A completed model number should look like "MC9210XXXXXX"									

NOTE: Cables for water meters, 4-20mA I/O and alarms must be ordered separately. See page 27.

Series MC9000 Optional Sensors and Flow Assemblies

All controllers can be configured with high pressure flow assemblies and non-standard sensor configurations. Contact your sales representative or Technical Support with your specifications to arrange a quote.

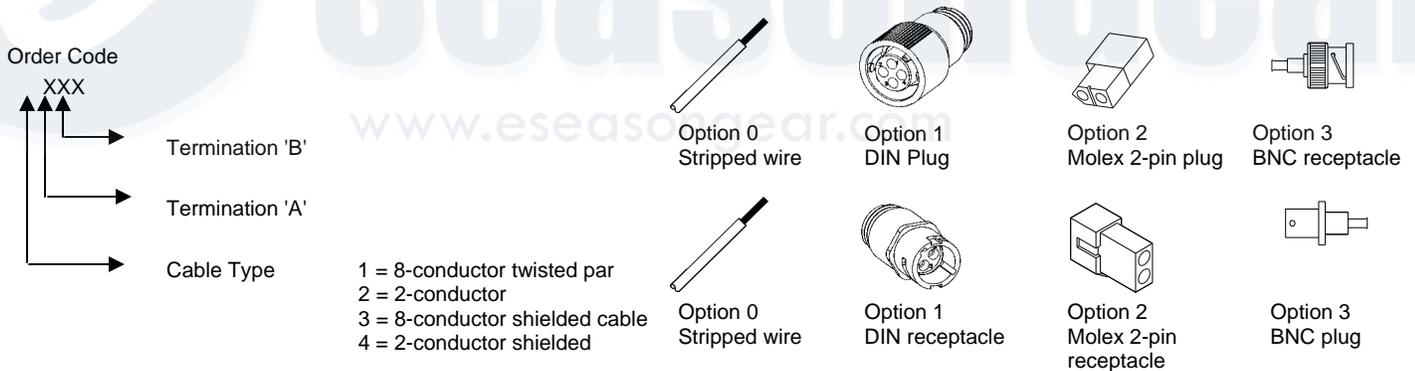
CABLES

Controller Cables

Use the selection guide below to configure an accessory cable to the length necessary for your application. Please refer to the information at the bottom of the table for maximum lengths.

CONTROLLER CABLE Selection Guide			CBL_--	--	XXX
CABLE TYPE	\$32.40	121 = Multi-port drum level, 4 drum levels			
	\$20.60	101 = Water Meters, Analog Input, Analog Output, Dry Contact Alarms			
	\$35.20	211 = Extension Cable for Flow Switch			
	\$35.20	111 = Extension Cable for Conductivity Sensor			
	\$35.20	311 = Extension Cable for Conductivity Sensor			
	\$45.70	433 = Extension Cable for pH/ORP			
	\$23.50	222 = Extension Cable for single point drum levels			
AGENCY APPROVAL	N/C \$17.70	X = No agency approval required A = CE Approval (required for use with CE approved options)			
CABLE LENGTH	N/C \$1.60 / ft. after 3 ft.	003 = 3 ft. standard minimum length XXX = Desired length in feet up to maximum allowed by application (see below)			
Cable Application	1 ft = 0.30 m	1m = 3.28 ft			Maximum
Level Wands					500 ft / 152.5 m
Flow Switch					500 ft / 152.5 m
Series 9000 Conductivity Sensor					200 ft / 61 m
DCS 900 Conductivity Sensor					35 ft / 10.5 m
Level Wands - multiple wands (4) in one cable					500 ft / 152.5 m
4-20mA Signals					500 ft / 152.5 m
Dry Contact Water Meters					500 ft / 152.5 m
Hall Effect (paddle wheel) water meters					500 ft / 152.5 m
pH/ORP - for distances greater than 30 ft/9.2m, you must use a preamp.					1000 ft / 305 m

The following diagrams indicate the type of terminals on the cable based on the three digit order code.



pH Preamp Options (Extension Cable Required)

04-046-16	Preamp with power supply only	\$ 362.90
04-046-18	Preamp with battery pack only	\$ 238.20
04-046-20	Replacement battery for preamp	\$ 26.30
45-000-25-1	Preamp with power supply and flow assembly plug	\$ 376.00
45-000-25-2	Preamp with battery pack and flow assembly plug	\$ 250.60