

LAKEWOOD INSTRUMENTS

MODEL 1512e

WATER TREATMENT CONTROLLER



The Model 1512e uses the latest in microprocessor capability, giving the user a high level of application flexibility. The user in the field can configure this controller to operate as a pH and conductivity or as an ORP and conductivity controller. A large illuminated graphics screen, multiple inputs, and very easy setup characterize this new technology. The Model 1512e is NTL/CSA approved.

PART NUMBER 1268960 SHOWN

Cooling Tower Water Treatment Controller, Including Flow Switch Plumbing, pH Sensor and Conductivity Sensor on a Mounting Plate

FEATURES

- Removable power cord and receptacles for simple conduit installations.
- Scheduled feed, which can use three relays for biocides or other chemicals.
- Two (2) water meter inputs, two (2) drum switch inputs, conductivity input, pH or ORP input, flow switch input, two 4-20 mA outputs, and remote conductivity and pH/ORP input via 4-20 mA, and seven relay outputs are all standard features.
- Designed with a single circuit board for better reliability and lower cost.
- Large open shallow enclosure for easy wiring.
- Ball valve delay feature allows accurate control of motorized ball valves.
- Heavy-duty stainless steel domed numeric keypad and illuminated graphical display allow for quick and easy programming. Steel domed switches improve the tactile sensing and life expectancy of the keypad.
- LED indicators for power, flow, alarm, and relay status.

BENEFITS

- Easy to program, the Model 1512e Controller menu is just like the Lakewood 1500 Series controllers.
- Single circuit board design improves reliability.
- No add-on options. Two 4-20 mA outputs and feed schedule clock features are standard.

SPECIFICATIONS

Conductivity range	50-10,000 μ S	Timers	Max. blowdown time exceeded and relay run time exceeded
Conductivity sensor	2 electrode	Output Signal	Two 4 – 20 mA, isolated or non-isolated optionally powered output for conductivity and pH/ORP
Conductivity Resolution	$\pm 10 \mu$ S (conductivity <5000 μ S) $\pm 100 \mu$ S (conductivity > 5000 μ S)	Input Signal	Two 4-20 mA, non-isolated internally powered input for conductivity and pH/ORP
pH range	0-14 pH	Output relays	7, 6 selectable use, 1 blowdown
ORP range	-2000 to +2000 mV	Relay ratings	3A each, 10A total
Sensor Types	Solution ground, Signal differential, or Single ended	Power	120/240 VAC 50/60 Hz
Resolution	$\pm .10$ pH or 1 mV	Ambient	32° - 120°F (0 - 49°C)
Temperature comp.	Automatic	Enclosure	NEMA 4X
Accuracy & repeatability	$\pm 1.0\%$		
Deadband/Setpoint	Programmable		
Auto/Manual outputs	Menu selectable		
Keypad	16 tactile push-buttons		
Display	illuminated 128x64 pixel LCD		
Drum Switch Inputs	2 digital contact inputs		
Water meter inputs (2)	Contact head, paddle wheel or turbine		

Sensors/Plumbing	Cooling Tower
Max Pressure	140 psi (9.65 bar)@ 100 °F
Max Temp	140°F (60°C)
Min flow	1 gpm (3.785 Lpm)

ORDERING OPTIONS

Controller Options

- 1268957** Model 1512e Controller Only. (No Sensors or Plumbing).
- 1268958** Model 1512e Cooling Tower Water Treatment Controller, Including pH and Conductivity Sensors and Flowswitch Plumbing Assembly.
- 1268959** Model 1512e Cooling Tower Water Treatment Controller, Including ORP and Conductivity Sensors and Flowswitch Plumbing Assembly.
- 1268960** Model 1512e Cooling Tower Water Treatment Controller, Including pH and Conductivity Sensors and Flowswitch Plumbing Assembly on a Mounting Plate.
- 1268961** Model 1512e Cooling Tower Water Treatment Controller, Including ORP and Conductivity Sensors and Flowswitch Plumbing Assembly on a Mounting Plate.

Cooling Tower Options



1268640 Cooling Tower Flow Switch Plumbing

1240472 Cooling Tower pH sensor w/15 ft cable

1268640 Cooling Tower ORP sensor w/15 ft cable

1167158 Cooling Tower cond sensor w/20 ft cable

