

LAKEWOOD INSTRUMENTS

MODEL 1520/30e

pH or ORP WATER TREATMENT CONTROLLER



The Model 1520/30e uses the latest in microprocessor capability, giving the user a high level of application flexibility in pH or ORP control. The user in the field can configure this controller to operate as a pH or an ORP controller. A large illuminated graphics screen, multiple inputs, and very easy setup characterize this new technology. Water meters, sensors and plumbing assemblies are purchased separately.

PART NUMBER 1240518 SHOWN

Cooling Tower Water Treatment Controller With Flow Switch Plumbing And Ph Sensor On A PVC Mounting Plate.

FEATURES

- Use this Controller for Cooling towers, Process, Wastewater, and Condensate systems.
- 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, pH or ORP input, flow switch input, and 4-20 mA output are all standard features.
- Designed with a single circuit board for better reliability and lower cost.
- Large open shallow enclosure for easy wiring.
- 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, alarm and relay status.

BENEFITS

- Easy to program, the Model 1520/30e Controller menu is just like the Lakewood 1575e controller.
- Controller can be removed from a cooling tower and be placed in another type of application when used with the appropriate pH or ORP sensor.
- Single circuit board design improves reliability.
- No add-on options. 4-20 mA output and biocide features are standard.

SPECIFICATIONS

pH range	0-14 pH	Drum Switch Inputs	2 digital contact inputs
ORP range	-2000 to +2000 mV	Water meter inputs (2)	Contact head, paddle wheel or turbine
Sensor Types	Solution ground, Signal differential, or Single-ended	Timer	Relay run time exceeded
Resolution	± .10 pH or 1 mV	Output Signal	One 4 – 20 mA, non-isolated powered output
Temperature comp.	Automatic	Output relays	4 selectable use
Accuracy & repeatability	± 1.0%	Relay ratings	3A each, 10A total
Deadband/Setpoint	Adjustable	Power	120/240 VAC 50/60 Hz
Auto/Manual outputs	Menu selectable	Ambient	32° - 120°F (0 - 49°C)
Keypad	16 tactile push-buttons	Enclosure	NEMA 4X
Display	illuminated 128x64 pixel LCD		

Sensors/Plumbing	Cooling Tower	Process/Wastewater	Condensate
Max Pressure @ 100°F	140 psi (9.65 bar)	70 psi (4.8 bar)	70 psi (4.8 bar)
Max Temp	140°F (60°C)	Up to 230°F (110°C)	230°F (110°C)
Min flow	1 gpm (3.785 Lpm)	1 gpm (3.785)	1 gpm (3.785 Lpm)

ORDERING OPTIONS

Controller Options

- 1240475** Water Treatment Controller Only. Universal Controller Is Field Programmable For Cooling Towers, Wastewater, And Condensate Applications. (No Sensor Or Plumbing.)
- 1240476** Cooling Tower Water Treatment Controller, Including Flow Switch Plumbing And Ph Sensor.
- 1240418** Cooling Tower Water Treatment Controller, Including Flow Switch Plumbing And ORP Sensor.
- 1240518** Cooling Tower Water Treatment Controller With Flow Switch Plumbing And Ph Sensor On A PVC Mounting Plate.
- 1240519** Cooling Tower Water Treatment Controller With Flow Switch Plumbing And ORP Sensor On A PVC Mounting Plate.

Cooling Tower Options



1240477 Cooling Tower Flow Switch Plumbing Assembly



1240472 Cooling Tower Ph Sensor With 15 Ft Cable



1240473 Cooling Tower Orp Sensor With 15 Ft Cable

Process / Wastewater Options



The 1520E Uses The Lakewood Instruments 520 Series Sensors For pH
Part Number **1167302** pH Replacement Sensor Tip Shown



The 1530E Uses The Lakewood Instruments 530 Series Sensors For ORP
Part Number **1167318** Orp Replacement Sensor Tip Shown

Condensate Options



1165305 520-4-7I-10-STD Condensate Ph Sensor With 3/4 In NPT Inline Fitting



1167983 520-4-7R-18-STD Condensate Ph Sensor With 1.0 In NPT Retractable Inline Fitting

MODEL 1520/30e

PART NO. pH COOLING TOWER CONTROLLER SYSTEMS

1240476 1520e with cooling tower flowswitch and sensor
1240518 1520e with cooling tower FS and sensor on mounting plate

PART NO. ORP COOLING TOWER CONTROLLER SYSTEMS

1263418 1530e with cooling tower flowswitch and sensor
1240519 1530e with cooling tower FS and sensor on mounting plate

PART NO. pH/ORP COOLING TOWER CONTROLLER

1240475 1520/30e controller only, no sensor

PART NO. pH and ORP COOLING TOWER COMPONENTS

1240472 Sensor, pH w/15 ft Cable
1240473 Sensor, ORP w/15 ft Cable
1240477 Plumbing, with 20' FS, remote plumbing
1263221 pH transmitter

PART NO. REPLACEMENT PARTS

1166418 O-Ring, for sensor and/or flow sight, set of 10
1169740 Red Ring replacement Kit set of two
1107004 20' Reed Switch
1167266 Flow Sight set of five
1167234 Flow Float set of five
1107003 Plumbing, with 20' FS, remote plumbing