

LAKEWOOD INSTRUMENTS

MODEL 1575e

WATER TREATMENT CONTROLLER



The Model 1575e uses the latest in microprocessor capability, giving the user a high level of application flexibility. A large illuminated graphics screen, multiple inputs, and very easy setup characterize this new technology. The Model 1575e is UL/CSA/CE approved.

PART NUMBER 1229242 SHOWN

Cooling Tower Water Treatment Controller, Including Flow Switch Plumbing And Conductivity Sensor On A Mounting Plate

FEATURES

- Use this Controller for Cooling towers, Chill loops, Boilers, 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, conductivity input, flow switch input, 4-20 mA output, and remote conductivity input via 4-20 mA 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, alarm and relay status.

BENEFITS

- Easy to program, the Model 1575e Controller menu is just like the Lakewood 2000 Series controllers.
- Controller can be removed from a cooling tower and be placed in another type of application when used with the appropriate conductivity sensor.
- Single circuit board design improves reliability.
- No add-on options. 4-20 mA output and biocide clock features are standard.

SPECIFICATIONS

Conductivity range	50-10,000 μ S for cooling towers; 500-8000 μ S for boilers; 10-100 μ S for condensate	Water meter inputs (2)	Contact head, paddle wheel or turbine
Conductivity sensor	2 electrode	Timers	Max. blowdown time exceeded and relay run time exceeded
Conductivity Resolution	$\pm 10 \mu$ S (conductivity <5000 μ S) $\pm 100 \mu$ S (conductivity > 5000 μ S)	Output Signal	One 4 – 20 mA, isolated or non-isolated optionally powered output for conductivity
Temperature comp.	Automatic	Input Signal	One 4-20 mA, non-isolated internally powered input for conductivity
Accuracy & repeatability	$\pm 1.0\%$	Output relays	4, 3 selectable use, 1 blowdown
Deadband/Setpoint	Programmable	Relay ratings	3A each, 10A total
Auto/Manual outputs	Menu selectable	Power	120/240 VAC 50/60 Hz
Keypad	16 tactile push-buttons	Ambient	32° - 120°F (0 - 49°C)
Display	illuminated 128x64 pixel LCD	Enclosure	NEMA 4X
Drum Switch Inputs	2 digital contact inputs		

Sensors/Plumbing	Cooling Tower	Boiler	Condensate
Max Pressure @ 100°F	140 psi (9.65 bar)@ 100 °F	600 psi (41.3 bar)	70 psi (4.8 bar)
Max Temp	140°F (60°C)	486°F (252°C)	392°F (200°C)
Min flow	1 gpm (3.785 Lpm)	Varies w/orifice plate	1 gpm (3.785 Lpm)

ORDERING OPTIONS

Controller Options

- 1229239** Water Treatment Controller Only. Universal Controller Is Field Programmable For Cooling Towers, Boilers, And Condensate Applications. (No Sensor Or Plumbing).
- 1229240** Cooling Tower Water Treatment Controller, Including Sensor Tee And Conductivity Sensor.
- 1229241** Cooling Tower Water Treatment Controller, Including Flow Switch Plumbing And Conductivity Sensor.
- 1229242** Cooling Tower Water Treatment Controller, Including Flow Switch Plumbing And Conductivity Sensor On A Mounting Plate

Cooling Tower Options



1107003 Cooling Tower Flow Switch Plumbing



1167214 Cooling Tower Plumbing Tee



1167158 Cooling Tower sensor With 20 ft cable

Boiler System Options



1168374 SR2
Boiler Water Sensor with 20 Ft Cable and Conduit Elbow.
3/4 INCH NPT Connection.



1167244 Orifice Union
1/2 INCH NPT

Orifice Plates, 1/2 in NPT
1166354 1/8 inch opening
1166355 1/16 inch opening



1268608 MBV1
1/2 INCH NPT
Motorized ball valve

Condensate Options



540K.1-4-TC500



-10I



-10R



540K.01-TC500

SOME COMMON CONFIGURATIONS LISTED BELOW

- 1104591** 540K.1-4-10I-10-TC500 Condensate sensor with 3/4 in NPT inline fitting. 0-100 µS.
- 1168617** 540K.1-4-10R-18-TC500 Condensate sensor with 1.0 in NPT retractable inline fitting. 0-100 µS.
- 1104592** 540K.01-4-10I-10-TC500 Condensate sensor with 3/4 in NPT inline fitting. 0-10 µS.
- 1169642** 540K.01-4-10R-18-TC500 Condensate sensor with 1.0 in NPT retractable inline fitting. 0-10 µS.

MODEL 1575e

PART NO. CONDUCTIVITY COOLING TOWER CONTROLLER SYSTEMS

1229240 1575e with cooling tower sensor tee and sensor
1229241 1575e with cooling tower flowswitch and sensor
1229242 1575e with cooling tower FS and sensor on mounting plate

PART NO. CONDUCTIVITY COOLING TOWER CONTROLLER

1229239 1575e controller only, no sensor

PART NO. CONDUCTIVITY COOLING TOWER COMPONENTS

1167158 Sensor, Conductivity 2 elec w/20 ft Cable
1167157 Sensor, Conductivity 2 elec w/2 ft Cable
1167214 Plumbing, tee
1107003 Plumbing, with 20' FS, remote plumbing

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