

# LAKEWOOD INSTRUMENTS

## MODEL 150

### BOILER WATER TREATMENT CONTROLLER



The Model 150 uses the latest in microprocessor capability, giving the user a high level of application flexibility. Multiple inputs and very easy setup characterize this new technology.

This controller can be used in the Continuous Sample, Sample/Cycle, or **Sample/Hold** modes to control the boiler water conductivity.

**PART NUMBER 1269089 SHOWN**  
Boiler Water Treatment Controller

#### FEATURES

- Use this Controller for conductivity control of boilers. It can be used for Continuous Sample, Sample/Cycle, or Sample/Hold control of boiler conductivity.
- Removable power cord and receptacles for simple conduit installations.
- One (1) water meter input, conductivity 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.
- The enclosure is rated NEMA 4X.
- Power selector switch for 115 or 230 vac operation.
- 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.
- The display is lit by two LEDs when any key is pressed.

#### BENEFITS

- Easy to program, the Model 150 Controller uses an intuitive menu and a numeric keypad for programming.
- No add-on options. Flow switch input, 4-20mA output, and three boiler conductivity control methods; Continuous Sample, Sample/Cycle, and Sample/Hold are standard.
- Single circuit board design improves reliability.
- Multiple methods of chemical feed for application flexibility.

#### SPECIFICATIONS

<b>Conductivity range</b>	100-10,000 $\mu$ S	<b>Water meter input</b>	Contact head, paddle wheel or turbine
<b>Conductivity sensor</b>	2 electrode	<b>Timer</b>	Max. blowdown time exceeded, relay time exceeded
<b>Conductivity Resolution</b>	$\pm 10 \mu$ S	<b>Output Signal</b>	One 4 – 20 mA, non-isolated powered output
<b>Accuracy &amp; repeatability</b>	$\pm 1.0\%$	<b>Relay ratings</b>	3A each, 10A total
<b>Deadband/Setpoint</b>	Adjustable	<b>Power</b>	120/240 VAC 50/60 Hz
<b>Auto/Manual outputs</b>	Menu selectable	<b>Ambient</b>	32° - 120°F (0 - 49°C)
<b>Output relays</b>	2 selectable use and 1 for blowdown	<b>Enclosure</b>	NEMA 4X CSA and ANSI/UL
<b>Keypad</b>	16 tactile push-buttons		
<b>Display</b>	16 X 2 Character		

## ORDERING OPTIONS

### Controller Options

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- 1269089** Boiler Water Treatment Controller Only. (No Sensor or Plumbing).
- 1269092** Boiler Water Treatment Controller, Including 1/2 " MBV-1 Motorized Ball Valve, 1/2 inch Orifice Union, and SR2 Boiler Conductivity Sensor.
- 1269093** Boiler Water Treatment Controller, Including PLKT Plumbing Assembly and SR2 Boiler Conductivity Sensor.

### BOILER SYSTEM OPTIONS

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- 1168374 SR2 Boiler water sensor with 20 ft cable and elbow. 3/4 NPT connection.
- 1233981 PLKT Plumbing Kit, 1/2 NPT.
- 1167520 GV, 1/2 Globe Valve
- 1166355 Orifice Plate, 1/2 NPT, 1/16.
- 1166354 Orifice Plate, 1/2 NPT, 1/8.
- 1167244 Orifice Union, 1/2 NPT.
- 1268608 MBV1 1/2 in NPT Motorized ball valve.
- 1268614 MBV2 3/4 in NPT Motorized ball valve.

