

# 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 1240475 SHOWN**

Cooling Tower Water Treatment Controller, Controller Only.

#### **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, 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 with the Lakewood plain English, intuitive, and user friendly menu interface.
- 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** 2-12 pH  
**ORP range** -1000 to +1000 mV  
**Sensor Types** Solution ground, Signal differential, or Single-Ended  
**Resolution** ± .10 pH or 1 mV  
**Accuracy & repeatability** ± 1.0%  
**Deadband/Setpoint** Adjustable  
**Auto/Manual outputs** Menu selectable  
**Keypad** 16 tactile push-buttons  
**Display** Illuminated 128x64 pixel LCD

**Timer** Relay run time exceeded  
**Output Signal** One 4 – 20 mA, non-isolated isolated powered output  
**Output relays** 4 selectable use  
**Relay ratings** 3A each, 10A total  
**Power** 120/240 VAC 50/60 Hz  
**Ambient** 32° - 120°F (0 - 49°C)  
**Power** 120/240 VAC 50/60 Hz  
**Ambient** 32° - 120°F (0 - 49°C)  
**Enclosure** NEMA 4X, ETL



**Drum Switch Inputs** 2 digital contact inputs  
**Water meter inputs (2)** Contact head, paddle wheel or turbine

Sensors/Plumbing	Condensate
Max Pressure	70 psi (4.8 bar)
Max Temp	230°F (110°C)
Min flow	1 gpm (3.785 Lpm)

# ORDERING OPTIONS

## Condensate Sensor Options

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**Note: All cable lengths are 15 feet.**

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