



ELC-800

AUTOMATED WATER LEVEL CONTROLLER



OVER 15 YEARS OF
PROVEN RELIABILITY

MAINTAIN PRECISE WATER
LEVELS IN ANY POOL, SPA OR
WATER FEATURE

The model ELC-800 Water Level Controller is a state of the art device designed to maintain precise water levels for commercial and residential swimming pools and spas. Unlike systems that use floats or other moving parts or introduce an electrical current into the water, the ELC-800 uses a proximity sensor to monitor the water level accurately and to automatically activate the auto water make-up control valve. The proximity sensor is precise enough to satisfy the State Department of Health and the operator's strict standards for clean and clear water. It utilizes micro-processor technology to control all water level functions. The status at a glance lights clearly indicate the operating status of the unit to ensure accurate water level control at all times. With five different sensor configurations, AquatiControl's ELC-800 will work for every new or existing application.

INPUTS

Sensors

Proximity switch sensor sensitive to within +/- 1/8 in. (4mm) of nominal water level

Supply voltage to sensor: 12 V DC
Current consumption < or = 15mA per sensor

Sensor operation temperature 25° C to 70° C

Operating humidity 35% RH to 95% RH

Power

Controller: 110-120 VAC, 1 phase, 50/60 Hz

Fused at 1 amp with a user-protected 3AG 5 x 20mm fuse

Controller has a 20VA 24VAC transformer protected with a 1.0 A polyfuse to external loads, allowing the system

to power a 10V valve and the internal electronics.

Power switch located on side of controller with LED indicator

OUTPUTS

Valves

One solenoid application for filling; controller interlocks with auto water make-up and provides adjustable time delay for increasing level.

1 SSR output solenoid valve at 24VAC 1.85 A with red LED indicator

CONTROLS

Timings

Controller has a 15-second rolling slosh filter with 0.1-second samples for fluid

detection
Delay to Shutoff: 5 seconds to 15 minutes
Maximum on Time: Adjustable from 30 to 60 minutes; may be disabled for extended or unlimited filling

Alarm Conditions

When either 30 or 60 minutes is timed out when in fill mode

Indicators

Yellow LED indicates level
Red LED indicates filling
Green LED indicates power

AMBIENT CONDITIONS

Works in conditions of 0° C to 60° C
Sealed case enables use in very humid environments provided case seal is intact

SAFETY SYSTEMS

The 24VAC is monitored by the micro controller; if it detects that the polyfuse is open due to an overcurrent condition, or that no load is present when it turns the valve on, an alarm is output
Controller provides separation of high and low voltage
All cordage features watertight strain reliefs

PHYSICAL SPECIFICATIONS

Dimensions (HxWxD)

7 in. x 5 in. x 3 in.

Weight

Controller is 2.5 lbs.

Enclosure

Oil resistant sealing gasket
Polycarbonate NEM 4 Type B, light gray
Flammability rating: VC94-V00-IEC 529 IPS 5

Mounting hardware included

Materials and Mounting

Mounting: User mounts unit using four mounting holes located under the lid
Recommended mounting: On wall near eye level with solid mounting

Controller is factory wired and tested

MODELS AVAILABLE

ELC-800-SS-ST-XXX (Surge Tank)
ELC-800-SS-SW-XXX (Standard Well)
ELC-800-SS-DW-XXX (Deck Well)
ELC-800-SS-SG-XXX (Sight Glass)
ELC-800-SS-WW-XXX (Wet Well)

WARRANTY

ACT warrants equipment of its manufacture and bearing its identification to be free of defects in workmanship and material. ACT's liability under this war-

ranty extends for a period of one year from date of delivery from our factory or authorized distributor. It is limited to repairing or replacing any device or part which is returned, transportation prepaid, to the factory within one year of delivery to the original purchaser, and which is proven defective upon examination.

ACT disclaims all liability for damage during transportation, for consequential damage of any nature, for damage due to handling, installation or improper operation, and for determining suitability for the use intended by the purchaser.

ACT makes no warranties, either expressed or implied, other than those stated above. No representative has authority to change or modify this warranty in any respect.

GENERAL INFORMATION

Operation and Maintenance Manual
ELC-800 Specification

AQUATIC CONTROL TECHNOLOGY PRODUCTS

The ELC-800 Automated Water Level Controller is part of a full line of AquatiControl products and equipment for the commercial aquatic market.



Standard Well

The standard ELC configuration is designed for mounting at static water levels, usually in a pump pit in the equipment room. For pools and spas with skimmers.



Wet Well

The wet well design allows pool and spa sensing in a 2" static well, usually in the equipment room. For pools and spas with skimmers.



Sight Glass

The sight glass is typically utilized on a balance tank configuration. For pools and spas with balance tanks.



Surge Tank

The wet well surge tank allows mounting in a surge tank to control pool and spa levels. For overflow gutter applications.



Deck Well

Installed pool or spa side on applications where mechanical equipment is above or below the pool water level. For pools and spas with skimmers.

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