



PENTAIR COMMERCIAL AQUATICS

**AUTOMATION
(CONTROL SYSTEMS)**



ACU-TROL®

COMMERCIAL CHEMICAL CONTROLLER



Acu-Trol Chemical Controller is the advanced choice for aquatic facilities worldwide. These efficient systems interface seamlessly to protect, monitor, and manage water chemical balance in aquatic environments and infrastructures. The Acu-Trol Chemical Controller is compatible with the commercial IntelliChlor® Salt Chlorine Generator, Rainbow erosion feeder and/or liquid feed pumps.



AK110

Part numbers located on next page.

Featured Highlights

- Monitors one body of water
- 3rd relay can be used to automate second sanitizer
- pH, ORP, temperature and safety flow switch standard
- Programmable pH, ORP and temperature set points
- Programmable chemical feed cycle ON and OFF (MIX) times
- Programmable proportional feed
- Programmable acid, base or CO₂ feed for pH control
- Relay configuration shortcuts with Acu-Trol Controller Wizards
- Flow cell with built-in flow switch, shut-off valves, inlet strainer and sampling port
- Records up to 30 days of sensor data internally in 1 or 2 hour recording intervals
- NSF Standard 50 Listed



AK600

Part numbers located on next page.

Featured Highlights

- AcuCom Software
- Multiple control for 1, 2, or 3 bodies of water
- Programmable pH, ORP and temperature set points
- Programmable proportional fee for precise chemical feed
- Programmable acid, CO₂ or base feed for pH control
- Relay configuration shortcuts with Acu-Trol Controller Wizards
- Auto backwash filters for up to two bodies of water
- Flow cell with built-in flow switch, shut-off valves, inlet strainer and sampling port
- 16 relays with three (3) voltage configurations

For proper controller selection, application assistance, technical support, and pricing, please contact your local Pentair Aquatic Systems Representative or contact the factory at 800-831-7133.

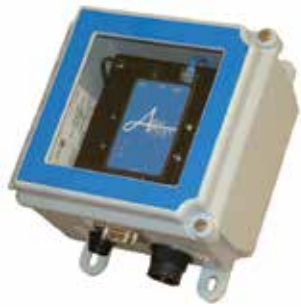
ACU-TROL® (CONT'D)

COMMERCIAL CHEMICAL CONTROLLER

Part Number	Product Name	Description
AK110 AUTOMATIC WATER CHEMISTRY CONTROLLER		
701000110	AK110PS-A	Controller, AK110, pH, ORP, Temp, FC
701000120	AK110PS-C	Controller, AK110, pH, Colorimetric PPM, Temp, FC
701000130	AK110PS-AD	Controller, AK110, pH, ORP, Temp, FC, RTCM, RS232 Title 22-Ready
701000140	AK110PS-CD	Controller, AK110, pH, Colorimetric PPM, Temp, FC, RTCM, RS232
AK600 PUMP ROOM CONTROLLER		
701000170	AK600PS-A1	Controller, AK600, 1 Body, pH, ORP, Temp, FC
701000180	AK600PS-A2	Controller, AK600, 2 Body, pH, ORP, Temp, FC
701000190	AK600PS-A3	Controller, AK600, 3 Body, pH, ORP, Temp, FC
701000230	AK600PS-D1	Controller, AK600, 1 Body, pH, ORP, Color, Temp, FC
701000240	AK600PS-D2	Controller, AK600, 2 Body, pH, ORP, Color, Temp, FC
701000250	AK600PS-D3	Controller, AK600, 3 Body, pH, ORP, Color, Temp, FC
711000040	AK600PS-W	Controller base only (no Flow Cel, sensor card or sensors)
701000740	AK600PS-Dual	Controller, AK600, 2 Body, Dual AKColor, pH, ORP, Temp, FC
AK600 PUMP ROOM CONTROLLER WITH CONDUCTIVITY SENSORS		
701000510	AK600PS-C2	Controller, AK600, 2 Body, pH, ORP, Conductivity, Temp, FC
701000710	AK600PS-E1	Controller, AK600, 1 Body, pH, ORP, Color, Conductivity, Temp, FC
701000720	AK600PS-E2	Controller, AK600, 2 Body, pH, ORP, Color, Conductivity, Temp, FC
701000730	AK600PS-E3	Controller, AK600, 3 Body, pH, ORP, Color, Conductivity, Temp, FC
AK CO² SYSTEM		
751000030		CO2 Low System 30 SCFH
751000040		CO2 System High Output 100SCFH CO2 High
751000050		CO2 System 30 SCFH NO REG AKCO2 NR Low
TESTING EQUIPMENT		
755000240	Duo Check	Test meter, pH/ORP input output
SENSORS		
744000260	AKpH-FB	Sensor, pH, Blue, BNC, Sensor Only
744000330	AKORP-FB	Sensor, ORP, Red, BNC, Sensor Only
744000390	AKORG-FB	Sensor, ORP, Gold Tip, BNC, Sensor Only
STENNER PUMPS - STENNER 45 SERIES - SINGLE HEAD		
751000470	45M3-1/4B	Pump, Adj. 1/4 in. Blk tubing 120V 25PSI #3 22GPD
751000540	45M5-1/4B	Pump, Adj. 1/4 in. Blk tubing 120V 25PSI #5 45GPD
STENNER PUMP AND TANK COMBINATION UNITS		
751002600	ST15G	Storage Tank, Chem, 15 gal, UV Grey
751002610	ST30G	Storage Tank, Chem, 30 gal, UV Grey
751002670	45MP525F15	Pump, 45MP, Fixed #5, 25PSI w/ Tank, 15 Gal, UV Grey
751002690	45MP525F30	Pump, 45MP, Fixed #5, 25PSI w/ Tank 30 Gal, UV Grey

ACUPOINT™ WIRELESS COMMUNICATION

COMMERCIAL CHEMICAL CONTROLLER



AcuPort Wireless Communication

Featured Highlights

- Ethernet, WiFi, or RS-422/485 connectivity options
- Interfaces with the AK110 and AK600
- Easy Windows based installation and configuration
- Dedicated communication with a single controller
- 120VAC power adapter
- Ready-to-use RS-232 serial cable
- Waterproof and corrosion-resistant, easy-to-install enclosures and connectors
- Bidirectional communication and control

Ordering Information

Part Number	Product Name	Description
INTELLICHEM CHEMICAL CONTROLLER		
731000010	AP1000	AcuPort 1000 RS232 to Ethernet
731000020	AP1100	AcuPort 1100 RS232 to wireless or Ethernet

AKCOLOR™ COLORIMETRIC CHEMICAL FEEDER

COMMERCIAL CHEMICAL CONTROLLER



AKColor Colorimetric Chemical Feeder

Featured Highlights

- Available in Single (compatible with AK110™ and AK600™) or Dual, compatible with AK600 multi-pool water chemistry sensor
- Measures free total and combined chlorine
- DPD colorimetric measurement technology
- Selectable sample rates
- Compatible with salt chlorine generators
- Interfaces with the AK110 and AK600
- Upgrades available

Ordering Information

Part Number	Product Name	Description
INTELLICHEM CHEMICAL CONTROLLER		
741000000	AKCF *	AKColor Complete Free (Needs 615 Sensor Card)
741000010	AKCT *	AKColor, Total, Complete Free (Needs 615 Sensor Card)
741000030	AKDF *	AKColor, Dual Free (Needs 615 and 616 Sensor Card)

* No Sensor Card

COMMERCIAL INTELLICHEM®

CHEMICAL CONTROLLER

Featured Highlights

- Dual sanitizer support
- Programmable chemical feed cycle and mix times for precise water balance
- Assures safe water conditions by preventing excess chemical addition in a 24 hour period
- Built-in Langelier Saturation Index calculator lets you know when your water chemistry is perfectly in or out of balance
- Flow sensor ensures chemicals won't feed without system flow
- Password-protected access prevents tampering or accidental program change
- Use of ScreenLogic2® on PC offers the ability to keep track of pH and ORP levels and make adjustments locally or remotely
- Compatible with IntelliChlor® Salt Chlorine Generators, external dosing pumps, and CO₂ systems



Ordering Information

Product	Description	Application
COMMERCIAL INTELLICHEM CHEMICAL CONTROLLER		
522577	IntelliChem Commercial System - 1 pump ^{1,2}	Dual sanitization support w/standalone ScreenLogic remote PC connectivity. Pre-mounted and pre-wired on 2'x2' plastic backboard. Containers ordered separately. The 522577 Controller is ETL Listed to NSF 50 Standard
522578	IntelliChem Commercial System - 2 pumps ^{1,2}	Dual sanitization support w/standalone ScreenLogic remote PC connectivity. Pre-mounted and pre-wired on 2'x2' plastic backboard. Containers ordered separately. The 522578 Controller is ETL Listed to NSF 50 Standard
INTELLICHEM CHEMICAL CONTROLLER ACCESSORIES		
751000610	Stenner 10GPD External Pump ^{1,2}	10GPD Stenner pump for feeding liquid acid or chlorine
522650	Stenner 10GPD Pump Tube - 2 pk. ^{1,2}	10GPD Stenner pump tubes for every 6-month replacement
522651	Stenner 10GPD Pump Tube - 5 pk. ^{1,2}	10GPD Stenner pump tube for every 6-month replacement

¹Pentair always recommends 1:1 dilution when using full strength muriatic acid. When mixing, remember to always add acid to water.

²Pentair recommends replacing peristaltic pump tubes every 6 months. Note: Always try to position container off the equipment pad (if possible).

PALINTEST POOLTEST 3

PHOTOMETER WATER TESTER

Featured Highlights

- Tests for chlorine, pH and cyanuric acid
- Robust, waterproof, IP 67 rating
- Easy to use [4 intuitive buttons]
- Ideal for routine pool monitoring
- Narrow band wavelength filters
- Language free, universal symbol set
- Large backlit graphics display screen
- Longer cell pathlength; excellent resolution at low concentrations

Regular testing of pool water is essential for effective disinfection and pH control. The Palintest Pooltest 3 offers the ideal answer - a 3 parameter instrument which is quick, accurate and reliable.



Palintest
Pooltest 3

Ordering Information

Product	Model	Description
ACUCHECK TEST KIT		
522504	Palintest Pooltest 3	3 Instrument Cl, pH, CYA

LX80 & LX820 SYSTEMS

COMMERCIAL POOL/SPA CONTROL SYSTEMS



LX802

Designed for a commercial pool and spa application. Provides Remote Spa Jets switch (suitable for outdoor locations) with electronic countdown timer (15/30 minutes).

Featured Highlights

LX802 Commercial Pool/Spa Control System

- Emergency Shut-off Switch (disables all pumps)
- Audio Alarm
- Power Center available (with or without circuit breaker sub-panel) at the equipment site, features: mechanical time clocks for the Pool and Spa Filter Pumps, power relays (3) for Pool and Spa Filter Pumps and Spa jet Pump, electronic cool-down cycle for pool and spa heaters and equipment service switches

LX8202 Emergency Shut-off System

- Emergency Shut-off Switch
- Audio Alarm
- Power Center at the equipment site with equipment status lights and power relays (2) for Spa Filter Pump and Jet Booster Pump

Ordering Information

LX80 & LX820 COMMERCIAL POOL/SPA CONTROL SYSTEMS							
LX802*	Pool Filter, Spa Filter, Jet1, Jet2	3 / 8	N/A	Gas/Elec/Solar/Heat Pump	115V/230V	20	
LX802L*	Pool Filter, Spa Filter, Jet1, Jet2	3 / 8	4qty. @ 230V	Gas/Elec/Solar/Heat Pump	115V/230V	20	
LX8202	*Spa Filter, Jet1, Jet2	2 / 3	N/A	N/A	115V/230V	20	

* LX80 and LX820 systems standard relays included are 20 amp 2HP. Part number RLYLX3HP can be ordered if installing a 3HP pump.



LX802L



LX8202

Designed for retrofitting commercial spas where an emergency shut-off switch is required.

ACCESSORIES FOR LX80 COMMERCIAL POOL/SPA CONTROL SYSTEM

263045	Valve Actuator
RCS1	Additional Spa Jets Switch (for multiple jet pumps)
ES03	Emergency Shut-Off Switch w/Audible Alarm
RLYLX	Additional Power Relay (for auxiliary equipment)
RLYLX3HP	Additional 25 Amp, 3 HP Power Relay (for auxiliary equipment)
RYALX	Harness to operate 2 Power Relays from one control circuit
TS5L	Solar Temperature Sensor

ACCESSORIES FOR LX8202 COMMERCIAL POOL/SPA CONTROL SYSTEM

RLYSC	Additional Power Relay (for second jet pump or filter pump)
RLYSC3HP	Additional 25 Amp, 3 HP Power Relay (for auxiliary equipment)

VALVE ACTUATOR

VALVE CONTROL SYSTEMS

Featured Highlights

CVA24 Valve Actuator

- Helps Prevent dead-heading of pumps
- Corrosion-proof enclosure
- Service switch (for flow direction)
- ETL recognized
- UL listed for use with IntelliTouch® Automation
- Operates Compool, Ortega® or Jandy® Valves
- Compatible with all 24VAC Control Systems



Valve Actuator

Designed for use with 2-port and 3-port valves. Features maximum torque, 24VAC bi-directional motor.

Ordering Information

Product	Model	Voltage	Cable	Rotation	Compatibility	Motor
VALVE ACTUATORS						
263043	CVA24L	24 VAC	3-wire	90 deg.	2-port Compool/Ortega/Jandy Valves	Bi-directional
263044	CVA24Y	24 VAC	3-wire	120 deg.	3-port Compool PTV2Y Valve	Bi-directional
263045	CVA24T	24 VAC	3-wire	180 deg.	3-port Compool/Ortega/Jandy Valves	Bi-directional

Jandy® is a registered trademark of Jandy Industries, Inc.

GFCI CIRCUIT BREAKERS

Featured Highlights

- Added safety of 6 milliamp Personnel Protection
- Meets 2008 to current NEC Standards for Pool Pumps
- Compatible with IntelliTouch and EasyTouch® Control System
- Works in any breaker base approved for use with Siemens® QPF style breakers
- Designed to protect personnel exposed to ground faults in AC, DC, and mixed AC/DC systems where levels exceed 6 milliamps



GFCI Circuit Breakers

Product	Description	Carton Qty.	Carton Wt (Lbs.)
GFCI CIRCUIT BREAKERS			
PA215GF	2-pole 15 amp GFC	10	11.50
PA220GF	2-pole 20 amp GFC	10	11.50

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SCREENLOGIC2® INTERFACE

FOR INTELLITOUCH® AND EASYTOUCH® AUTOMATION SYSTEMS



Add ScreenLogic2 Interface to Pentair automation systems and gain pool access from practically anywhere at anytime using your smartphone, computer, mobile digital device, Apple Watch wrist wearable device, and now on the Amazon Echo™

Featured Highlights

ScreenLogic2 Interface allows you to control the key functions of your pool and spa using the IntelliTouch and EasyTouch control systems, using controllers such as mobile devices, smart phones computers, Apple Watch® Wearable Device and now on the Amazon Echo™. The ScreenLogic Bundle (PN 522104) conveniently includes the Interface Kit for mobile devices, smart phones, computers and Apple Watch Wearable Device and the ScreenLogic Wireless Connection Kit.

INTELLITOUCH® AUTOMATION SYSTEMS

ADVANCED AUTOMATION SYSTEMS FOR POOL AND SPA



Featured Highlights

IntelliTouch Automation offers superior control systems from small to the most ambitious pool and spa designs including water features and spectacular lighting effects. IntelliTouch Automation Systems offer innovative technology and a wide range of wireless and wired control panels that are easy to program with simple menus to enable pool owners to create and change programs without complication. Users can choose from mobile devices, smart phones computers, wearable devices or the MobileTouch® Wireless (900MHz) Control Panel to complete their pool and spa automation system.

* All ScreenLogic2 Interface Kits come with a protocol adapter

Apple Watch® is a registered trademarks of Apple Inc. in the United States and/or other countries.

Amazon Echo™ is a trademark of Amazon Technologies, Inc., in the United States and/or other countries.

For more information on Pentair Automation systems visit www.pentairpool.com

EASYTOUCH® CONTROL SYSTEMS

POOL/SPA CONTROL SYSTEMS

Featured Highlights

The EasyTouch Control System family offers a new level of control for homeowner's looking for an affordable, easy to use pool/spa control system. EasyTouch allows full control of all pool/spa features including advanced features such as colored lighting and IntelliChlor® Salt Chlorine Generator support. Every EasyTouch system includes an easy to use control panel that is built into the outdoor enclosure. This control panel allows for full system setup, programmability, and everyday operation. In addition, there are several other available remote interface choices. The EasyTouch systems come in a variety of configurations: Pool only or Spa only, Pool/Spa with shared equipment, and also integrated with Pentair Aquatic Systems' IntelliChlor salt chlorine generator.



EasyTouch System



Mobile devices, smart phones, computers, Apple Watch® Wearable Device, and Amazon Echo®

EASYTOUCH® PL4/PSL4 CONTROL SYSTEMS

POOL/SPA CONTROL SYSTEMS

Featured Highlights

The EasyTouch PL4/PSL4 Control Systems offers a new level of control for homeowner's looking for an affordable, easy to use pool/spa control system. EasyTouch PL4/PSL4 allows control pools with a smaller number of features including pumps, filters, lighting, water features, spa control, heaters and heat pumps, chemical control and sanitizing. The EasyTouch PL4 control system is a 4-circuit system, designed for a single body of water. The EasyTouch PLS4 is designed to control a pool/spa combination. Both options are available bundled with our ScreenLogic Interface Kit that allows for remote operation on mobile devices, smart phones computers and wearable devices; or right at the Power Center on the equipment pad. For more advanced features and up to 8 feature circuits, please see previous page for the EasyTouch Control System options.



EasyTouch PL4/
PSL4 System

Note: EasyTouch PL4/PSL4 Systems use the power center enclosure that does not contain a breaker base.



Mobile devices, smart phones, computers, Apple Watch® Wearable Device, and Amazon Echo®

For more information on Pentair Automation systems visit www.pentairpool.com