

## Etatron DLX/B Series pH/ORP Pump Control Systems

### Easy set-up

- Controller and metering pump in one unit
- Accept pH or ORP electrodes with BNC connectors
- Get better control of processes with on/off and proportional control modes

These solenoid-driven, diaphragm metering pumps and controllers are encased with an IP65, acid-resistant plastic housing. Polypropylene pump heads have manual air bleed, PTFE diaphragm, and Viton® wetted parts. Pump control systems accept level switches (order separately below right). Backlit LCD display has resolution of 0.01 pH or 1 mV.

**What's included:** 6-ft (1.8-m) length of both clear PVC and PE tubing (3/16" ID x 1/4" OD), weighted filter, and 6-ft (1.8-m) US standard power cord.



Foot-mount unit  
56022-47



### Specifications

**Range:**  
pH: 0 to 14  
ORP: -1000 to 1400 mV

**Resolution:**  
pH: 0.01; ORP: 1 mV

**Accuracy:**  
pH: ±0.1; ORP: ±1 mV

**Temperature compensation:**  
Manual input, automatic correction from 0 to 40°C

**Control type:** On/off (limit) or proportional

**Set points:** One

**Dead band:** Programmable

Max flow rate GPH (L/hr)	Max pressure psi (bar)	115 VAC, 50/60 Hz		230 VAC, 50/60 Hz	
		Cat. no.	Price	Cat. no.	Price
Foot-mount control systems					
0.3 (1)	218 (15)	<a href="#">GH-56022-47</a>		<a href="#">GH-56022-87</a>	
0.5 (2)	145 (10)	<a href="#">GH-56022-48</a>		<a href="#">GH-56022-88</a>	
1.3 (5)	102 (7)	<a href="#">GH-56022-49</a>		<a href="#">GH-56022-89</a>	
2.1 (8)	145 (10)	<a href="#">GH-56022-51</a>		<a href="#">GH-56022-91</a>	
3.9 (15)	58 (4)	<a href="#">GH-56022-52</a>		<a href="#">GH-56022-92</a>	
5.3 (20)	45 (3)	<a href="#">GH-56022-53</a>		<a href="#">GH-56022-93</a>	
Wall-mount control systems					
0.3 (1)	218 (15)	<a href="#">GH-56022-40</a>		<a href="#">GH-56022-80</a>	
0.5 (2)	145 (10)	<a href="#">GH-56022-41</a>		<a href="#">GH-56022-81</a>	
1.3 (5)	102 (7)	<a href="#">GH-56022-42</a>		<a href="#">GH-56022-82</a>	
2.1 (8)	145 (10)	<a href="#">GH-56022-44</a>		<a href="#">GH-56022-84</a>	
3.9 (15)	58 (4)	<a href="#">GH-56022-45</a>		<a href="#">GH-56022-85</a>	
5.3 (20)	45 (3)	<a href="#">GH-56022-46</a>		<a href="#">GH-56022-86</a>	

### Accessories

[GH-07187-06](#) Level switch; PP stem and float, 0.90 specific gravity

[GH-56022-70](#) Service kit for 0.3 to 3.9 GPM (1 to 15 L/hr) pumps

[GH-56022-75](#) Service kit for 5.3 GPH (20 L/hr) pumps

[GH-17106-20](#) NIST-traceable calibration with data

### Teky's Tips

Some controllers offer an adjustable dead band. Dead band refers to the span of input signal (pH or mV) from the set point that produces no change in output. A nonzero dead band prevents pumps from cycling on and off rapidly. This is useful when the measured value of the system is very close to the set point.



## Ion Concentration Controllers

### Keep ion levels in control

- Ideal for in-line monitoring and control of drinking and swimming pool water
- Reduce false alarms with relay delay of 0.0 to 99.9 seconds



Flow cell  
56106-50,  
chlorine  
electrode  
56106-60, and  
pH electrode  
05994-20

Connect alarm relay to an alarm or use in normal operation. Calibrate controllers from two to five points. Security code prevents accidental changes to setup parameters.

Ion concentration controller measures all parameters except chlorine. Ion-selective electrodes are sold separately below.

Description	Ion concentration controller
<b>Catalog number</b>	<a href="#">GH-56105-00</a>
Range	0.01 to 1000 ppm
Resolution	0.01/0.1/1 ppm
Number of set points	Three
Accuracy	±10% of reading
Control type	On/off (limit)
Number of inputs	One
Operating ambient	32 to 122°F (0 to 50°C)
Output	Relay Two SPDT, 110/220 VAC, 10/5 A resistive
	Alarm One SPDT, 110/220 VAC, 10/5 A resistive
	Current Isolated 0 to 20 or 4 to 20 mA, programmable
Display	One line x 16 character LCD
Power	110/220 VAC, 50/60 Hz
Dimensions (W x H x D)	3 3/4" x 3 3/4" x 6 1/8" (96 x 96 x 157 mm)
<b>Price</b>	

### Ion-Selective and pH Electrodes

Double-junction electrodes easily connect to controller with stripped wire ends. Measure 12 mm dia x 80 mm L with 10-ft (3-m) cable.

Ion/type of electrode	Temperature range	Pressure range	Catalog number	Price
Ammonia	32 to 122°F (0 to 50°C)	0 to 10 psi	<a href="#">GH-27077-00</a>	
Ammonium	32 to 104°F (0 to 40°C)	0 to 30 psi	<a href="#">GH-27077-01</a>	
Calcium	32 to 104°F (0 to 40°C)	0 to 30 psi	<a href="#">GH-27077-02</a>	
Chloride	32 to 176°F (0 to 80°C)	0 to 70 psi	<a href="#">GH-27077-04</a>	
Chlorine	32 to 176°F (0 to 80°C)	0 to 70 psi	<a href="#">GH-56106-60</a>	
Fluoride	32 to 176°F (0 to 80°C)	0 to 70 psi	<a href="#">GH-27077-06</a>	
Lead	32 to 176°F (0 to 80°C)	0 to 70 psi	<a href="#">GH-27077-08</a>	
Nitrate	32 to 104°F (0 to 40°C)	0 to 30 psi	<a href="#">GH-27077-10</a>	
pH/single junction	23 to 212°F (-5 to 100°C)	0 to 25 psi	<a href="#">GH-05994-20</a>	
pH/double junction	32 to 230°F (0 to 110°C)	0 to 75 psi	<a href="#">GH-05994-22</a>	
Potassium	32 to 104°F (0 to 40°C)	0 to 30 psi	<a href="#">GH-27077-12</a>	
Silver sulfide	32 to 176°F (0 to 80°C)	0 to 70 psi	<a href="#">GH-27077-14</a>	
Sodium	32 to 176°F (0 to 80°C)	0 to 70 psi	<a href="#">GH-27077-16</a>	
Water hardness	32 to 104°F (0 to 40°C)	0 to 30 psi	<a href="#">GH-27077-18</a>	

### Accessories

[GH-56106-50](#) Flow cell, adjustable liquid flow

[GH-56105-60](#) Adapter, female BNC to stripped-wire ends