



Your Partner in Safety

# Emergency Chlorine & SO2 Ton Container & Cylinder Valve Shutoff Systems

## HEXACON III CONTROLLER

Bulletin: 902

### Features

- Controls up to 6 valve actuators
- OLED display and membrane keypad
- Menu-driven user interface
- Up to 3 days battery backup
- Shuts each valve in 1 to 2 seconds
- Measures and confirms required valve torque
- Diagnostic system with up to 25 alarms and warnings
- Individual test key for each valve actuator
- Optional second battery for faster closing & redundancy
- NEMA 4X / IP67 enclosure
- Over-torque protection
- 3-year warranty



When used with our Eclipse actuators, the Hexacon III controller allows operators to remotely close up to six chlorine or sulfur dioxide valves in an emergency situation. The Hexacon III controller can interface with gas detectors, seismic or fire detectors, SCADA systems and with any number of remote mounted emergency shutoff/close switches. This allows operators to quickly and efficiently terminate a dangerous leak without having to “suit up” and enter the toxic environment.

The Hexacon III controller and attached actuators are powered by an internal 12 volt, 8.5 amp hour battery. A healthy consistent battery state is maintained by an AC powered charging circuit. Should the site lose electrical power, the battery will provide system backup power for up to 72 hours. The control panel comes with an easy to read alphanumeric display, as well as a test key for each actuator so that test closures can be performed on every new tank or cylinder that is put into service. During an emergency shutoff the valves close sequentially, with each closing in just over a second - about 7 seconds for 6 valves.

The Hexacon III controller uses our unique and patented “Torque-Sense” technology to measure the amount of torque that is applied to the valve stem. By measuring and confirming the torque applied, the Hexacon III can assure operators that their valves are properly closed in any emergency situation. An optional second battery is ideal for sites that want faster closing speeds, increased backup time and redundancy. Optional relay packages and SCADA outputs can remotely communicate up to 25 different system diagnostics to a PLC or data acquisition system.



[www.halogenvalve.com](http://www.halogenvalve.com)



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### Specifications

**Channels:** 6 (for use with up to 6 actuators)

**Enclosure Weight:** 18 lbs (8 kg)

**Battery Weight:** 7 lbs (3.2 kg)

**Enclosure Rating:** NEMA 4X / IP67

**Temperature Range:** -10 C to 40 C

**Display:** 2 line 40 character backlit OLED

**Power Requirement:** 110 - 240 VAC

**Power Use:** 100 watts

**Charging Current:** 0.9 amp at 120 VAC

**Charger:** Constant voltage trickle charge

**Warranty:** 3 years

**Battery Type:** 12 Volt, 8.5 amp hour, VRLA

**Battery Backup Power:** Up to 72 hours

**Remote Mount Emergency Shutoff Switch:** Normally open contact (N.C optional)

**Optional SCADA Output:** RS-232 output of 25 system diagnostics

**Relay Outputs:**

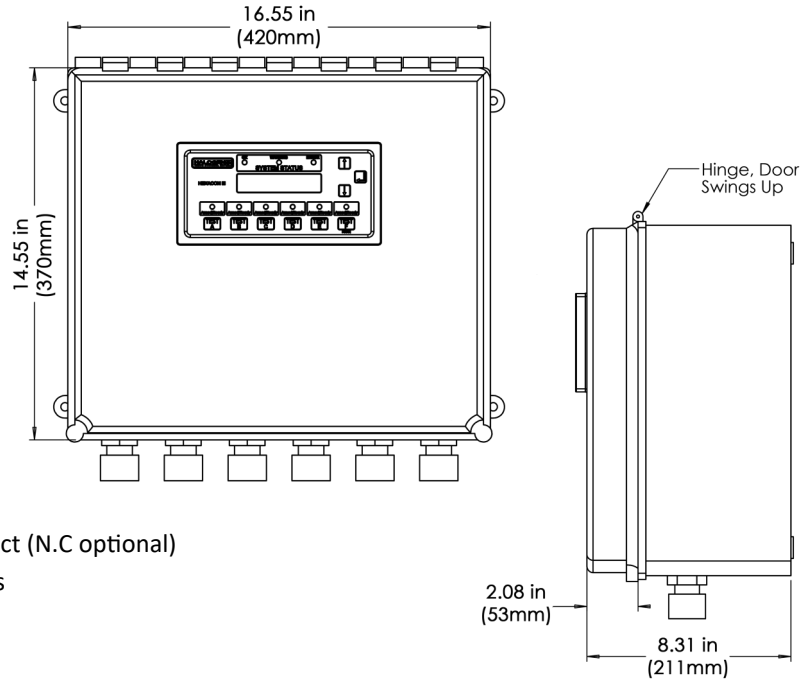
**Standard Relays:** (2) Momentary N.O., 200 mA @ 24V,

Conditions: Emergency close activated, all valves properly torqued, and system error

**Optional Relays:** (3) Dry contact, momentary or latching, NO/NC, 5A@250V.

Conditions: Selectable from list of 12. See Relay Interface Module info for details.

**Certifications:**



### Model Information

Image	Model	Description
	XPHS-1G XPHS-2G XPHS-3G XPHS-4G XPHS-5G XPHS-6G	Hexacon III controller with: (1) Eclipse Actuator (2) Eclipse Actuators (3) Eclipse Actuators (4) Eclipse Actuators (5) Eclipse Actuators (6) Eclipse Actuators
All systems come standard with Actuator Storage Brackets & Emergency Shutoff Pushbutton Switch		

### Options/Accessories

Part No.	Description
4213.00	Optional Second Battery, faster closing, increased backup, redundancy
4503.04	Optional SCADA output, RS-232 output of 25 system diagnostics
4503.05	Optional Relay Interface Module, (3) Form C dry contacts, 250 V / 5A, 12 alarm conditions

**NOTE:** Hexacon III controller requires the Eclipse actuator for a complete emergency valve shutoff system. Controllers cannot operate stand alone.



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