HALOGEN® VALVE SYSTEMS, INC.

Your Partner in Safety

Emergency Valve Shutoff Systems For Chlorine & SO_2 Cylinders and Ton Containers

GEMINI™ CONTROLLER for Terminator T2™ Actuators

Bulletin: 904

Features

- Controls one or two Terminator T2 actuators
- LED System Information Displays
  - ARMED & READY
  - BATTERY STATUS
  - BATTERY CHARGER STATUS
- Integral battery provides backup power for 24 hours
- Individual TEST key for each actuator
- NEMA 4X enclosure
- 3-Year Warranty



The GEMINI controller is an integral component of the Terminator T2 valve closing system, providing closing logic and power to the valve actuators. It can operate one or two Terminator T2 actuators and includes a separate test key for each actuator. An emergency close sequence can be initiated by remote shutoff (panic) switches, gas detector outputs, or other devices through the GEMINI contact closure input.

The GEMINI controller includes a standard output relay that momentarily activates when the emergency close sequence is complete, providing remote indication that the system has operated. Its integral 12 V battery powers the actuators and provides up to 24 hours of system backup. An optional Relay Interface Module (P/N 4500.05) provides three additional output relays indicating Proper Closing Torque Achieved, Low Battery Condition, and System Not Armed & Ready.







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Specifications

Channels: For 1 or 2 Terminator T2 actuators

Enclosure Rating: NEMA 4X / IP66

Temperature Range: -10 C to 50 C

Display: Membrane keypad with LED indication

- *ARMED & READY*
- *BATTERY STATUS*
- *BATTERY CHARGER STATUS*

Power Requirement: 110 - 240 VAC

Power Use: 110 Watts, 0.9 amp at 120 VAC

Standard Relay Output ("Emergency Close Activation"):
Momentary, N.O. / N.C., 1 A @ 24 VDC, 0.5 Amp @ 125 VAC

Integral Battery: 12v Rechargeable VRLA, 8.0 Ah

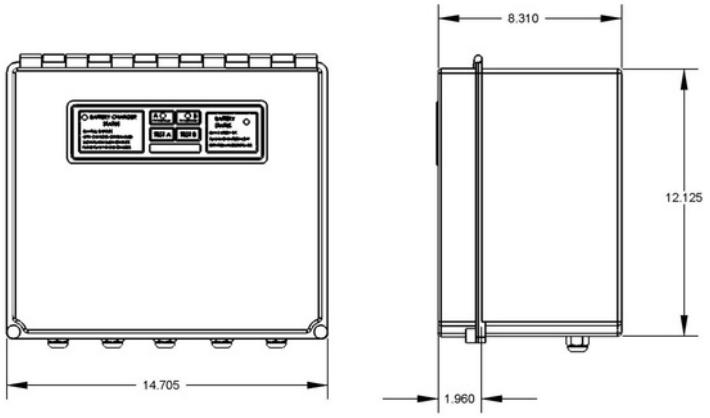
Onboard Battery Charger: Constant voltage trickle charge

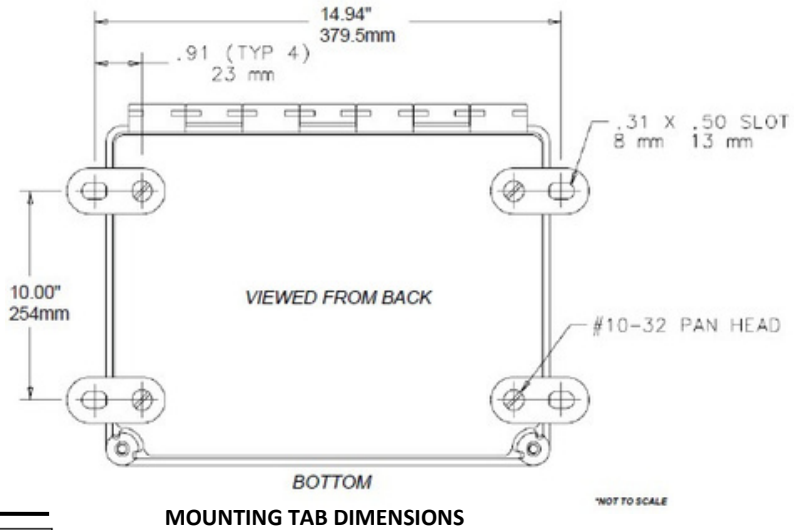
Battery Backup Duration: > 24 hours

Emergency Close Input: Normally open contact closure (optionally configurable as N.C. via jumper)

Warranty: 3-Year

Gemini Controller Weight: 14 lb (6.4 kg)





MOUNTING TAB DIMENSIONS

Model Information

Image	Model	Description
	T2GS-1G T2GS-2G Other models available	Gemini Controller with: (1) Gravity Mount Terminator (2) Gravity Mount Terminators All systems come standard with Storage Brackets, (1) Emergency Shutoff Switch, and (1) Actuator Mounting Bracket (C-Bracket) per Actuator.
Image	Model	Description
	T2GS-1Y T2GS-2Y Other models available	Gemini Controller with: (1) Yoke Mount Terminator (2) Yoke Mount Terminators All systems come standard with Storage Brackets and (1) Emergency Shutoff Switch.

Options / Accessories

Part No.	Description
4500.05	Relay Interface Module (RIM) — (3) 5A, 250VAC DPDT Dry Contacts. Alarm Conditions: 1) Proper Closing Torque Achieved 2) Low Battery 3) System NOT Armed & Ready
6430.00	Additional Emergency Close Switch

NOTE: *Gemini controller requires the Terminator T2 actuator for a complete emergency valve shutoff system. Controllers or actuators cannot operate "stand-alone".*

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