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The Gater Vehicle Barrier Specification Summary

See *Installation, Operations, & Maintenance Manual* for additional information

GATER DESIGN

Impact resistance	Gater Model anti-terrorism vehicle barrier; K-12 crash certified to stop a 15,000 lb vehicle traveling at 50mph
Barrier substructure	Deep foundation design with heavy duty 12-inch tubular steel bolsters. K-12 system requires 63-in excavation for the bolsters.
Beam obstacle	Beam Construction: Aluminum tubing with high strength synthetic ropes contained in aluminum housing, 2" Sq., 11 Ga. (.120) Aluminum Tubing. Gate mounting hardware is 304 stainless steel. Gate fence (if applicable) construction varies depending upon fence style.
Clear Vehicle Opening	Beam only - Clear opening up to 17 ft. Beam with fence - Clear opening up to 15 ft
Barrier Dimensions	Height: 5 feet to 9 feet from pad grade. Gate fence over 8 feet will require special crating and freight arrangements
Weight	Approximate weight is 2500 pounds, depending upon fence style (if applicable).
Color	Sherwin-Williams Polane® polyurethane enamel. Standard colors: Black, White, Brown, Green, Safety Yellow and Gray. Custom colors Available.
Electric Power Unit	Gear Motor: Horse power - 1/3 continuous duty cycle. Gear Type: Hardened Steel Bearing Type: Ball. Gear Lube: Dextron II E ATF (Rated to -70 degrees F). Dual belt/high torque reduction system. Counter balanced. Safety locking pins used during preventative maintenance to negate vertical and horizontal movement.
Circuitry	Circuitry: Solid state coated control board in NEMA 4x weatherproof electrical enclosure. Sealed proximity switches ensure weather and moisture-proof integrity. (Boards tested to -40 degrees F. Wiring: 16 and 18 Ga. Single conductor. Copper with electrolytic copper compression terminals tin-plated for maximum corrosion prevention.
Operating Speed	Open/closing cycles 12 to 14 seconds; Delayed closing adjustable from 0 to 60 seconds
Line Voltage	120V-3 Amp with 24v DC battery backup. (2) 12v sealed batteries required, NOT included. 24v built-in battery maintainer keeps batteries charged for built-in battery backup. "Over-Charge" protection built in.

GATER CONTROLS



Primary User Interface	Standard barrier user interface shall include a table or wall mountable Operator Control Panel (OCP). OCP includes push buttons for barrier movement up/down. An optional mushroom push button for Emergency Close function to close multiple barriers at the same time is available with a local audible alarm. This Emergency function DOES NOT increase the closing speed. The Emergency button can be provided with a twist reset or key reset, and includes a protective cover plate. Power requirements dependent upon Operator Control Panel (OCP) distance from barrier HPU (24VDC or 120VAC) and other factors. Many user interface options available. Price contingent upon customer requirements.
Functional Control	Relay or PLC Logic controls are available to sequence ancillary components such as a card reader, gate arm, traffic signal, ground loops, fire access, and other related system functions.
Safety Options	Many safety packages available. Standard safety package should include: Red/Yellow traffic lights (one per direction of travel); ground loops and detector system; high speed gate arm and operator system; IR safety sensor; and CCTV viewing and recording. Optional Reversing/Safety Loop, Leading Reversing Edge, and Infrared Reversing Beams. Adjustable IRD senses obstructions opening or closing. 24v built-in system brake when 120v or battery power is present.
Climate Control	Optional heater available for Motor and Control circuitry. No additional power required.

GATER INSTALLATION

Excavation	Deep foundation design with heavy duty 12-in tubular steel bolsters: 63-inch depth is minimum required, and should be increased as necessary for frost protection and drainage. See <i>Engineering Drawings</i> .
Concrete	Minimum strength required: 4,000 psi.
Supervision	Installation shall be by an approved installer, trained by the manufacturer or by an installer that is supervised by a manufacturer's factory technician. Install in strict accordance with manufacturer's instructions and contract documents.
Warranty	One (1) year from date of shipment on manufactured components and workmanship. Purchased components and accessories are covered under their respective warranties. (See full Warranty for details.)

