



“SlideSmart DC is super easy to install and program. The soft-start and soft-stop is awesome.”

Randy Saylor
Foster Fence, Texas



SlideSmart ™

Ultra Reliability • Easy Installation • Smart Power

Smooth gate travel provided by sophisticated soft-start and soft-stop technology. No more jerky motions or noisy, slamming gates.

 **Solar ready.** Simply add appropriately sized solar panels for continuous, reliable, solar-powered operation. No AC power required.

Continuous battery backup provides uninterrupted operation and reliable security even during an unexpected power outage.

Fewer parts means fewer problems. Simple operator design uses only high quality, robust parts.

Quick installation, low maintenance, and reliable operation make SlideSmart DC the *smart* automated gate solution for residential and commercial security.



 **HySecurity**
*Simple. Reliable. Secure.**

RESIDENTIAL COMMERCIAL RESIDENTIAL COMMERCIAL

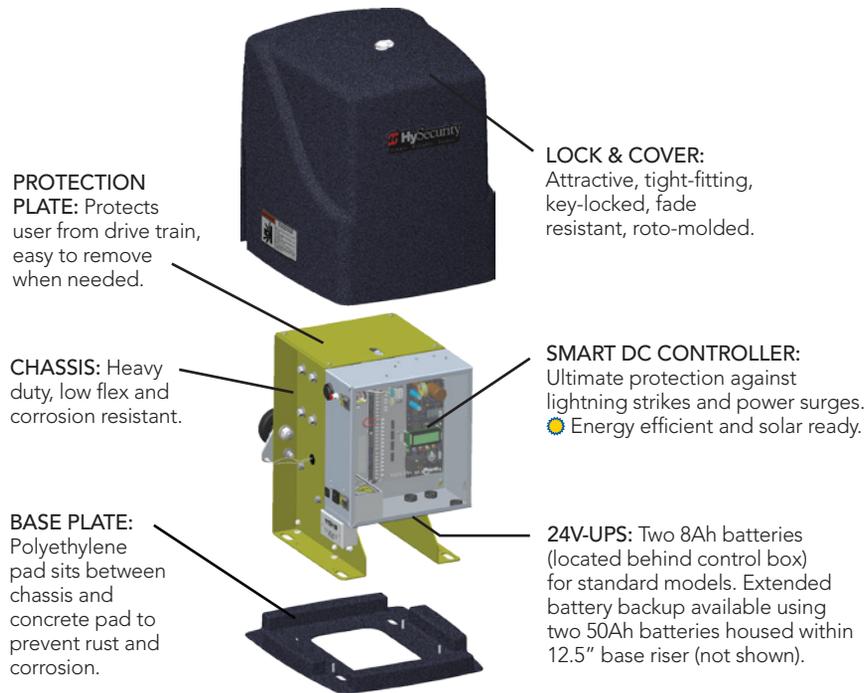
Ultra Reliable High Security

Distributed by:

The Ultimate in Intelligent, Programmable Security

“SlideSmart is outstanding! The smooth gate motion is great and minimizes wear on expensive gate hardware.”

David Stone
Access Systems Integrators, Indiana



SlideSmart DC™ Models

Model	SlideSmart DC 15	☀️ Solar SlideSmart DCS 15	SlideSmart DC 10F	☀️ Solar SlideSmart DCS 10F
Max Gate Weight	1,500 lb (682 kg)	1,500 lb (682 kg)	1,000 lb (455 kg)	1,000 lb (455 kg)
Max Gate Length	40 ft (12 m)			
Rate of Travel	0.75 to 1.25 ft/s (23 to 38 cm/s) Open/Close speed set separately	0.75 to 1.25 ft/s (23 to 38 cm/s) Open/Close speed set separately	1.75 to 2.25 ft/s (53 to 69 cm/s) Open/Close speed set separately	1.75 to 2.25 ft/s (53 to 69 cm/s) Open/Close speed set separately
Duty Cycle	Continuous	Continuous	Continuous	Continuous
Temp. Rating	-13°F to 158°F (-25°C to 70°C)			
Voltage Input	115V or 230V, 50/60 Hz	24V solar panels	115V or 230V, 50/60 Hz	24V solar panels
Accessory Power	12VDC and 24VDC and 24VAC 1 A each	12VDC and 24VDC 1 A each	12VDC and 24VDC and 24VAC 1 A each	12VDC and 24VDC 1 A each
Communication	USB, RS-232, RS-485, Ethernet option			
UL 325 Listing	Usage Class I, II, III, IV*	Usage Class I, II, III, IV*	Usage Class III, IV**	Usage Class III, IV**
Warranty	5 year (7 year single-family residential)	5 year (7 year single-family residential)	5 year	5 year

*Speed setting cannot exceed 1 ft/s for Class I and II usage. **Not for residential use or applications intended to serve the general public.
Note: Number of battery backup cycles after power loss is determined by gate size, duty cycle, peripherals, and other site conditions.

OPTIONAL ACCESSORIES: HY-5A intelligent vehicle detectors, extended battery backup, solar ready, photo eyes. Compatible with all available access control, safety, vehicle detection and many other accessories.

SYSTEM SUPPORT: Contact HySecurity® for CAD drawings, installation information, tech manuals, help with specialty site requirements or other support. Visit www.hysecurity.com or call to speak with a HySecurity representative today.



phone 1-800-321-9947 fax 1-888-321-9946
www.hysecurity.com • info@hysecurity.com
6623 South 228th, Kent, Washington 98032-1876

HySecurity operators, accessories and parts are stocked by distributors and installers across North America

TECHNICAL SPECIFICATIONS for Model SlideSmart DC 15 Slide Gate Operator with Smart DC Controller 02827 HYS

PART I – GENERAL

1.01. INCLUDED IN THIS SECTION

- A. Pre-wired gate operator for slide gates, including all selected attachments, accessory equipment, and mounting brackets.
- B. For further information, call the factory at 1-800-321-9947.

1.02. RELATED WORK SPECIFIED ELSEWHERE

- A. Fencing: See section 02815.
- B. Cast in place concrete: See section 03300.
- C. Electrical service and connections: See division 16512.

1.03. SUBMITTALS

- A. Shop drawings: Submit shop drawings under the provisions of Section 01300. Submit drawings showing connections to adjacent construction, range of travel, and all electrical and mechanical connections to the operator. All underground runs of electrical lines and inductive vehicle obstruction loop locations shall be indicated on drawings. Drawings shall also show the size and location of the concrete mounting pad.
- B. Installation instructions: Submit two copies of manufacturer's installation instructions for this specific project.
- C. Submit manufacturer's warranty registration form to Project Manager.
- D. Test reports:
 - 1) Submit affidavits from the manufacturer demonstrating that the gate operator mechanism has been tested to 200,000 cycles without breakdown.

1.04. QUALITY ASSURANCE

- A. Manufacturer: A company specializing in the manufacture of gate operators with a minimum of five years experience manufacturing gate operators of this type and design.
- B. Installer: A minimum of three years experience installing similar equipment.

1.05. CODES AND REGULATORY REQUIREMENTS

- A. Operators shall be built to UL 325 standards and be listed by a nationally recognized testing laboratory. Complete all electrical work according to local codes and National Electrical code. All fieldwork shall be performed in a neat and professional manner, completed to journeyman standards.
- B. Current safety standards require the use of multiple external sensors to be capable of reversing the gate in either direction upon sensing an obstruction. See also 2.02 F
- C. Vehicular gates should never be used by pedestrians. A separate pedestrian gate must always be provided when foot traffic is present.
- D. Gate must have physical stops to prevent over travel in both the open and close directions.
- E. Current safety standards require gate operators to be designed and labeled for specific usage classes. HySecurity model SlideSmart DC 15 is listed for use in all UL 325 Usage Classes: I, II, III, and IV (SlideSmart DC 15 is listed for use in UL 325 Usage Classes III and IV only when speed setting is faster than 1 ft/s).

1.06. PRODUCT DELIVERY AND STORAGE

- A. Comply with 01600.
- B. Store products upright in the original shipping containers, covered, ventilated and protected from all weather conditions.

1.07. WARRANTY

- A. Provide a five year warranty (seven year warranty for single-family residential applications) against all defects in materials or workmanship. Defective materials shall be replaced with new or refurbished materials furnished by the manufacturer, at no cost to the owner. Freight, labor and other incidental costs are not covered under the factory warranty, but may be covered by a separate service agreement between installing company and the owner.
- 1) To ensure validation of warranty, return completed warranty registration form (included in Installation and Reference Manual) to manufacturer.

PART II – PRODUCTS**2.01. GATE OPERATORS**

- A. HySecurity gate operator model SlideSmart DC 15 with Smart DC Controller, or other comparable UPS equipped operator, as approved by the architect or specifier. Substitute operators that are approved will be published in an addendum, not less than ten days prior to bid opening. Requests for substitution will include the amount of savings to be passed on to the owner.

2.02. OPERATION

- A. Operation shall be by means of a brushed DC electric motor driving a single reduction gear reducer with an output sprocket driving #40 plated roller chain. In the closed gate position, the DC motor will lock the drive assembly locking the gate in place without the use of externally operated electric or mechanical locks. The opening and closing speeds are user adjustable 0.75, 1.0, or 1.25 fps. The gear reducer shall be filled with synthetic lubricant capable of allowing operation down to -25°C (-13°F) without a heater. Operator shall be capable of handling gates up to 40ft (12m) in length and weighing up to 1,500lb (685kg). Gate Operator shall operate in the event of a power failure in an uninterruptible power supply mode to the extent the two 8Ah batteries can maintain adequate power.
- B. Standard mechanical components shall include as a minimum:
- 1) Two piece linear low density polyethylene cover with top locking latch. Cover protects bystanders from pinch hazards of roller chain traveling through idlers and drive sprocket.
 - 2) Electronic circuit boards to be conformal coated to resist moisture induced failures.
 - 3) Frame to be constructed of 10ga or greater steel plate, welded.
 - 4) Finish: Frame to be zinc plated. Other components zinc plated or non-corroding.
 - 5) Operator shall contain a position sensing device and a means of setting the limit position and maintaining this position in non-volatile memory. Operator must also contain a magnetic absolute position sensor to verify the gate position.
 - 6) Zinc or nickel plated #40 roller chain with chain mount brackets and connecting hardware.
- C. Minimum standard electrical components: Industrial grade.
- 1) Motor: ½ HP brushed DC motor with ball bearings.
 - 2) All components shall have overload protection.
 - 3) Controls: Smart DC Controller Board with 512K memory containing:
 - a) inherent entrapment sensor;
 - b) built in “warn before operate” system;
 - c) built in timer to close;
 - d) 2 line liquid crystal display for reporting of functions;
 - e) 24 programmable output relay options;
 - f) anti-tailgate mode;
 - g) built-in multi-level power surge and lightning strike protection using gas discharge and optoisolation technology;
 - h) multi-stage intelligent battery charging under microprocessor control;
 - i) capable of viewing EEPROM stored event logs for troubleshooting diagnostics;
 - j) RS232 and USB port for connection to laptop or other computer peripheral and RS485 connection of Master/Slave systems.
 - k) Pulse width modulated control of brushed DC motor using 110 Amp rated solid state switching devices.
 - 4) Transformer: 250 VA (N/A for solar model, SlideSmart DCS 15)
 - 5) Input Power: 115V, 230V. Field selectable. (24V solar panels for solar model, SlideSmart DCS 15)
 - 6) Accessory power: 12VDC, 24VDC, 24VAC. (12VDC and 24VDC only for solar model, SlideSmart DCS 15)
- D. Reset switch, accessible from outside.
- E. Back Drivable: During AC and DC power loss, the gate can be pushed open.

Specifications: SlideSmart DC 15

- F. Required external sensors: See 1.05B. Specify photo eyes or gate edges or a combination thereof to be installed such that the gate is capable of reversing in either direction upon sensing an obstruction.
- G. Optional control devices (*choose one or more of the following*): card reader, key switch, radio control, pushbuttons, vehicle detectors, and keypads.
- H. Optional alert devices: rotating beacon or flashing lights.
- I. Other options (*choose one or more of the following*):
 - 1) Extended battery backup using two 50 Amp hour batteries with base riser.
 - 2) Solar model available: SlideSmart DCS 15.
 - 3) Base riser.
 - 4) Post mount bracket.

2.03. FACTORY TESTING

- A. Fully assemble and test, at the factory, each gate operator to assure smooth operation and electrical connection integrity. Tests shall verify correct function of all inputs and functions.
- B. Check all mechanical connections for tightness and alignment. Check all welds for completeness and continuity. Check welded corners and edges to assure they are square and straight.
- C. Inspect zinc finish for completeness. Touch up any imperfections prior to shipment.
- D. Check all electrical wires to assure that chafing cannot occur during shipping or operation.

PART III – EXECUTION

3.01. SITE EXAMINATION

- A. Locate concrete mounting pad in accordance with approved shop drawings.
- B. Make sure that gate is operating smoothly under manual conditions before installation of gate operators. Do not proceed until gate panel is aligned and operates without binding.

3.02. INSTALLATION

- A. Install gate operator in accordance with the manufacturers printed instructions, current at the time of installation. Coordinate locations of operators with contract drawings; other trades and shop drawings.
- B. Installer shall insure that the service to the operator is at least 15 AMPS. Electrical wiring to conform to NEC and manufacturer's installation instructions. Operator wattage is 500W.

3.03. FIELD QUALITY CONTROL

- A. Test gate operators through ten full cycles and adjust for operation without binding, scraping or uneven motion.
- B. All anchor bolts shall be fully concealed in the finished installation.
- C. Owner, or owner's representative, shall complete "punch list" with installing contractor prior to final acceptance of the installation and submit completed warranty documentation to manufacturer.

3.04. CONTINUED SERVICE AND DOCUMENTATION

- A. Train owner's personnel on how to safely shut off electrical power, release and manually operate the gate. Additionally, demonstrate the general maintenance of the gate operator and accessories and provide copy of "Installation and Maintenance Manual" for the owner. Manual will identify parts of the equipment for future procurement. Direct maintenance personnel to www.hysecurity.com, specifically the technical support sections.

NOTE: HySecurity reserves the right to change these specifications at any time, without notice and without prejudice. Call (800) 321-9947 if you are not sure that you have the latest edition.

NOTE: Operators manufactured by HySecurity are intended for use in controlling vehicular traffic and are not intended to be used by pedestrians or to control pedestrian traffic. **Always install a separate pedestrian gate.**

LIMITED WARRANTY

1. Warranty.

Hy-Security Gate, Inc. (“HySecurity”) warrants that at the time of sale each of its products will, in all material respects, conform to its then applicable specification and will be free from defects in material and manufacture. This warranty does not extend to items listed as “accessories” in HySecurity’s price list, when those items carry another manufacturer’s name plate and they are not a part of the base model. HySecurity disclaims all warranties for such accessory components, which carry only the original warranty, if any, of their original manufacturer. HySecurity hereby assigns its rights under such manufacturer warranties—to the extent that such rights are assignable—to Buyer.

The following additional durational warranties apply to HySecurity’s products. *The term of these additional warranties is determined by whether (1) the product is purchased through an authorized HySecurity distributor and (2) whether a timely and complete warranty registration is submitted to HySecurity. It is therefore important that you register your product with HySecurity within the 60 day period described below.*

1(a) Five Year / Seven Year Warranty Items (Registered Gate Operators Purchased from Authorized Distributors)

For any gate operator product that is purchased from an authorized HySecurity distributor (this excludes product purchased through internet resellers or any distributor not authorized by HySecurity), if the online Warranty registration is completed at www.hysecurity.com/warranty within 60 days of the date of purchase by the dealer/installer or if the warranty registration form sent with every HySecurity gate operator is completely filled out and returned to HySecurity within the same 60-day period, the following Warranty terms will apply: HySecurity will warrant that the product will remain serviceable for the following periods:

- a. Hydraulic Gate Operators: Five Years or 500,000 gate cycles (whichever occurs first) after the date of installation, or
- b. Electromechanical operators: Five Years after the date of installation—unless installed in a single family residential application, in which case the warranty term shall be Seven Years after the date the product is shipped from HySecurity;
provided that the Five Year warranty period will not extend beyond Seven Years from the date that the product was shipped from HySecurity. This warranty does not apply to the components described below, which have the shorter warranty period indicated:
- c. Hydraulic Gate Operator Drive Wheels: Two Years
- d. Batteries used in all D.C. operators: One Year from date of shipment from HySecurity.

1(b) One Year Warranty Items (Operators Not Purchased from an Authorized Distributor or Registered within 60 Days)

For any gate operator product that is not purchased from an authorized HySecurity distributor or for which the online Warranty registration or warranty registration form sent with every HySecurity operator was not filled out completely or not returned to HySecurity within 60 days of the date of purchase by the dealer/installer, the following One-Year Warranty will apply to that product: HySecurity warrants that the product will remain serviceable for the following periods, which begin on the date that the product was shipped from HySecurity:

- a. All Gate Operators: One Year or 100,000 gate cycles whichever comes first.
- b. Hydraulic Gate Operator Drive Wheels: One Year

1(c) Replacement Parts

HySecurity warrants that replacement parts (whether new or reconditioned) will remain serviceable for One Year from the date that the product was shipped from HySecurity.

1(d) Limitations and Exclusions Applicable to Each of the Preceding Warranties

The preceding warranties shall not apply to equipment that has been (1) installed or maintained improperly or contrary to instructions; (2) subjected to negligence, accident, vandalism, or damaged by severe weather, wind, flood, fire, or war; or (3) damaged through improper operation, maintenance, storage or abnormal or extraordinary use or abuse. Any modification made to products will void the warranty unless the modifications are approved in writing by HySecurity, in advance of the change (this exclusion does not apply to normal installation of approved accessories and/or protective devices or sensors).

THESE ARE THE ONLY WARRANTIES GIVEN BY HYSECURITY AND ARE IN PLACE OF ALL OTHERS.

These warranties extend to HySecurity’s Distributors, to the Dealer/Installer, and to the First User of the product following installation. They do not extend to subsequent purchasers. Dealer/Installers or First Users may receive a replacement HySecurity Warranty form by calling HySecurity at 800-321-9947.

2. Exclusion of Other Warranties.

The warranties contained in Section 1 are the exclusive warranties given by HySecurity and supersede any prior, contrary or additional representations, whether oral or written. Any prior or extrinsic representations or agreements are discharged or nullified. HYSECURITY HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES—WHETHER EXPRESS, IMPLIED, OR STATUTORY—INCLUDING ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTIES OTHERWISE ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE.

3. Buyer's Exclusive Remedies for Any Nonconformity.

If a HySecurity product fails to conform to the warranties in Section 1, Buyer must notify and order replacement parts from the Distributor through which the product was purchased within a reasonable time and in no event more than thirty (30) days after the discovery of the nonconformity. HySecurity will investigate and, in the event of a breach, will provide, within a reasonable period of time, one of the following: (1) repair or replacement of any nonconforming products or components or (2) refund of the price upon return of the nonconforming items. Replacement goods will conform to this warranty for the unexpired duration of the warranty period for the original, nonconforming product. HySecurity reserves the right to supply used or reconditioned material for all warranty claims. This warranty does not cover or extend to any incidental expenses, including labor, shipping, travel time or standby time, that are incurred for inspection or replacement of any nonconforming items. As a condition of warranty coverage, warranty claims must be submitted in accordance with the following paragraph. THE REMEDY SELECTED BY HYSECURITY IN ACCORDANCE WITH THIS PARAGRAPH SHALL BE THE EXCLUSIVE AND SOLE REMEDY OF BUYER FOR ANY BREACH OF WARRANTY. IN NO EVENT SHALL HYSECURITY BE OBLIGATED TO INDEMNIFY BUYER FOR ANY BREACH OF WARRANTY.

For warranty coverage, you must follow the procedures described on HySecurity’s form, “RMA Procedures.” A current version of the form is available from HySecurity.

4. Exclusion of Consequential and Incidental Damages.

IN NO EVENT SHALL HYSECURITY BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM NONDELIVERY OR FROM THE USE, MISUSE, OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT OR FROM HYSECURITY’S OWN NEGLIGENCE OR OTHER TORT. This exclusion applies regardless of whether such damages are sought for breach of warranty, breach of contract, negligence, or strict liability in tort or under any other legal theory. This exclusion does not apply to claims for bodily injury or death.

5. Severability.

If any provision of this warranty is found to be invalid or unenforceable, then the remainder shall have full force and effect, and the invalid provision shall be partially enforced to the maximum extent permitted by law to effectuate the purpose of the agreement.

6. Applicable Law.

This Warranty will be interpreted, construed, and enforced in all respects in accordance with the laws of the State of Washington, without reference to its choice of law principles. The U.N. Convention on Contracts for the International Sale of Goods will not apply to this Warranty.