



CENTURION
THE AUTOMATIC CHOICE

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**Tried,
tested,
perfected!**



SLIDING GATE OPERATORS



SWING GATE OPERATORS



GARAGE DOOR OPERATORS



REMOTE CONTROLS



INTERCOMS



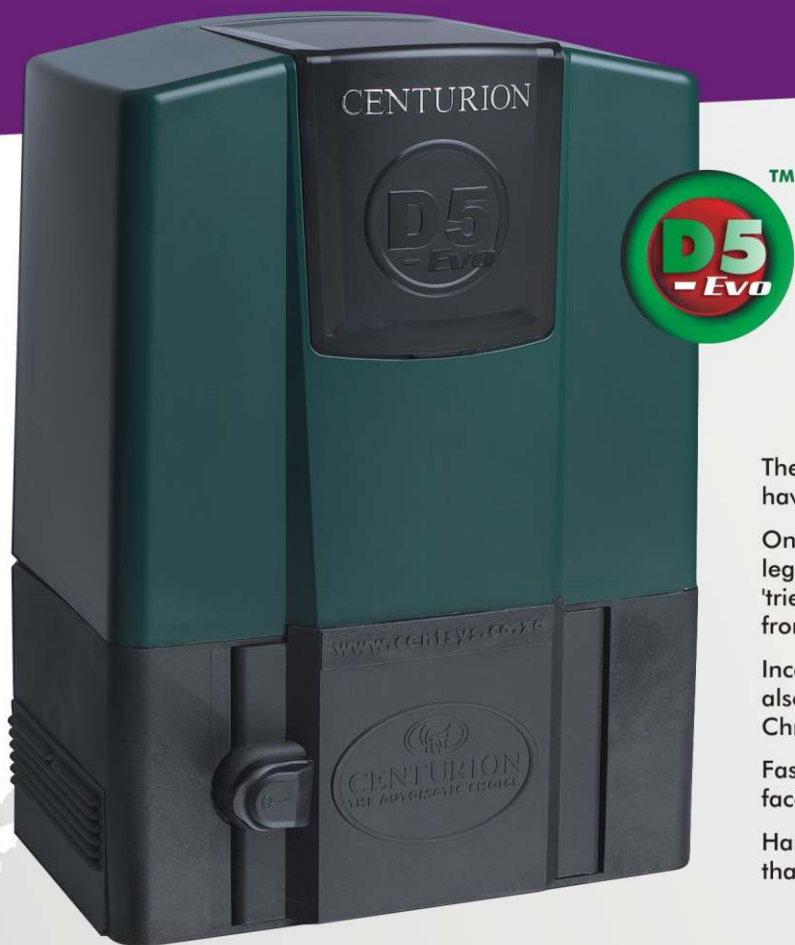
SAFETY BEAMS



KEYPADS



Established 1986



They say you can't improve upon perfection. Well, they obviously haven't seen the **D5-Evo**.

One of the most durable and reliable operators ever made, the legendary D5 is renowned the world over. Many years later, old 'tried and tested' gets perfected. We borrowed what we learned from the D10 and applied it to the **D5-Evo**.

Incorporating a 12V version of the D10 controller, the **D5-Evo** also offers a wide range of useful features, which includes ChronoGuard timer functionality (patent pending).

Faster, smarter and easier to set up, old faithful even got a facelift and now looks more like his D10 cousin.

Hard as nails and loyal to the end, you can sleep easy, knowing that this CENTURION is on guard.

Main features



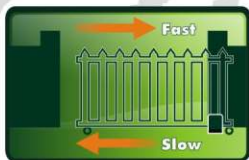
Battery backup

We pioneered power failure protection in gate motors. So in line with all our other operators, the **D5-Evo** carries on guarding your entrance even when the lights go out.



All important speed

The original D5 made a mark for itself being a quick operator opening the gate swiftly when you arrive at your entrance. The **D5-Evo** is now that little bit faster, opening your average four metre gate in less than twelve seconds, adding even more security and convenience.



Open it the way you like it...

Rapid opening but a more tempered closing just in case a loved one is in the way, that's the sort of sophistication in motor control you can expect from the **D5-Evo**. Added to this, you can vary the acceleration and deceleration of your gate and make it move so smoothly it will do so for many years to come.



Pushes like a mule

Such a compact package but such a potent push force, it will reliably move almost any gate weighing up to 500kg and do it for a very long time.



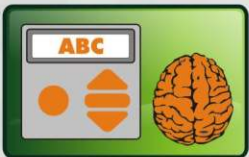
Wide awake all the time!

Incorporating the tried and tested DOSS position control system of its predecessors, the D3 and D5, the **D5-Evo** moves accurately open and closed, stopping in just the right spot each and every time. It's also wide awake to any obstruction that might cross its path, ensuring safe and sensitive anti-crushing protection.



It will turn heads

The **D5-Evo** takes on a new and more attractive look compared to the original D5. It's nice to know that even your trusty gate guard will turn heads.



Plug and play

The LCD-based controller makes child's play of setting up the gate. It is literally plug and play - the **D5-Evo's** controller does all the thinking for you.



It's got it all

What a pleasure to click through an almost endless list of really useful features - from multiple modes of operation, Gate operating parameters, Pillar light control with pre-flash, Alarm functions, Positive Close Mode and Real Time Clock and Calendar to enable time-based features - to helpful diagnostic feedback. It just stops short of making the coffee!



Operate wirelessly, thanks to NOVA¹

Besides its Keeloq™ rolling code technology offering the highest level remote control security, this multichannel and multi-user NOVA onboard receiver allows for a multi-button remote to operate any combination of the system inputs, such as Gate trigger, Pedestrian opening, Holiday Lockout, etc.

It stores up to 125 transmitter buttons, and amongst other access control features, it provides the ability to selectively add and delete transmitter buttons saved into its memory.

1. NOVA rolling code (Keeloq™ encryption)





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Alarm features (patent pending)²

Burglars have some nifty techniques to get into your home. Fortunately, criminals can't outsmart the **D5-Evo**. An **Ambush Alarm** will alert your security company if the opening or closing beams are interrupted for a predefined, but adjustable, time. Similarly, a **Break-in Alarm** will go off if the closing beam outside your house is interrupted. Their gig is up.

2. Requires gate safety beams to be installed

D5-Evo controller features

Hardware features

- Fully sealed plastic housing for controller to prevent ingress of dirt and insects
- Easy setup of controller using LCD user interface
- Removable connectors on controller for easy maintenance
- Watchdog IC ensures full and safe operation of controller
- Optional Backup Memory Module allows backing up of all the information that has been set up in the system

Electronic features

- Opening and closing safety beam inputs with beam circuit functional test*
- High security cleared-beam autoclose in conjunction with safety beam (PIRAC)*
- Break-in and Ambush Alarm (patent pending) with configurable outputs via onboard buzzer, Pillar light relay, etc.*
- Multiple modes of operation: Standard Mode, Condominium Mode (multi-user), Reversing Mode, PLC* and Deadman Control Mode*
- Automatic closing with adjustable time, pushbutton override and selectable according to gate position
- Remote gate status indicator (gate position, power failure, low battery, multiple collision detection and pillar light status indication)*
- Pedestrian opening (adjustable opening and autoclose time)*
- Free-exit facility*
- Holiday Lockout* – configurable as emergency stop*
- Courtesy / Pillar-light timer with adjustable time*
- Fully configurable pre-delays with multi-modal pre-flash*
- Multiple Operating Profiles to suit region of installation - select between ZA, CE, etc.
- Full configuration of gate operating parameters, including independent gate opening and closing speeds, ramp-up and ramp-down distances and crawl speed
- Positive Close Mode (e.g. ensure activation of electric fence contact switch)
- Onboard multichannel NOVA rolling code receiver (Keeloq™ encryption) with the ability to:
 - learn transmitter buttons to specific functions (e.g. Gate trigger, Pedestrian opening, Free-exit, Pillar light control, Holiday Lockout)
 - selectively delete specific transmitters that have been lost or stolen
 - automatically learn transmitters into the system (Autolearn)
 - automatically delete transmitters that are no longer in use (Delete-Not-Present)
- Integrated **ChronoGuard** (patent pending) with Real Time Clock and Calendar timer offering multichannel time-activated and time-barring functionality
- Auxiliary output can be configured via the **ChronoGuard** timer to provide timer functionality to external devices, such as security lights, entrance fountain, etc.



* infrared safety beams or equivalent detection device must be fitted

* PLC: separate inputs to open, close and stop the gate

* Deadman Control Mode: separate inputs to open and close the gate, that must be held active to move the gate

* remote LED must be fitted

* onboard receiver must be used or external access control device such as keypad or keyswitch must be fitted

* inductive loop detector or infrared beams must be fitted

* to use this feature, a normally closed emergency stop pushbutton must be fitted

* pre-flash security / pillar lights must be fitted



ChronoGuard timer technology (patent pending)

The **D5-Evo** is so advanced that it no longer needs humans to look after it. With CENTURION's **ChronoGuard timer technology** onboard, many of the **D5-Evo's** features can be set to operate automatically or be time-barred at any time you choose. Its built-in Real Time Clock and Calendar allows you to set up different exclusions, which can cater for public holidays, special Time-periods, etc.

Once you've set up the **D5-Evo's ChronoGuard** using the intuitive LCD screen on the controller, you'll start feeling particularly redundant. For instance:



Why not automatically have your pillar lights switch on when the sun goes down? Let the **D5-Evo** take control. With **ChronoGuard timer technology** this is easy to set up and you'll never have to worry about it again.




































Better still – automatically time-activate the Holiday Lockout feature when you go to bed, ensuring that only specific, authorised remotes will be able to open the gate while you're sleeping, keeping teenagers at home and unwanted 'visitors' out.




ChronoGuard gives you the ability to time-bar specific NOVA rolling code (Keeloq™ encryption) remote controls. This gives you the flexibility to control when specific remote control holders can open your gate. For example, your domestic staff may be given access to your property during the week, but on weekends you may prefer to limit their access to your property.

ChronoGuard technology allows for almost unlimited time-based functionality, all of which is very simply set up on the controller via the intuitive menu system and LCD user interface. The following functionality is available:

- Time-activate many of the physical inputs and outputs of the controller (see table below)
- Time-bar many of the physical inputs and outputs of the controller, as well as particular remote buttons learned into the onboard receiver (see table below)
- The Real Time Clock and Calendar timer has the following flexibility:
 - It supports 100 Time-periods, that may be set according to:
 - Weekdays (M + T + W + T + F)
 - Any day of the week (M, T, W, T, F, S, S)
 - Weekends (S + S)
 - Every day of the week (M + T + W + T + F + S + S)
 - Special calendar events (family holiday, etc.) occurring on any date until the year 2100
 - Annual calendar events (New Year's Day, etc.)
 - Allows for multiple Time-periods to be set during a 24-hour period
- The Real Time Clock and Calendar timer is backed up for at least one hour to maintain the current time and date in the event that all power is removed from the controller

	Physical inputs					Physical outputs		
	Trg: Gate trigger	Ped: Pedestrian opening	FRX: Free-exit	Aux: Pillar light control	Lck/Stp: Holiday Lockout	Close: Closing safety beams	Aux IO: Auxiliary output	Light: Pillar light relay
Time-activate	X	✓	✓	✓	✓	✓	✓	X
Time-bar 	 	 	 	 	 	 	 	 
	 	 	 	 	 	 	 	 

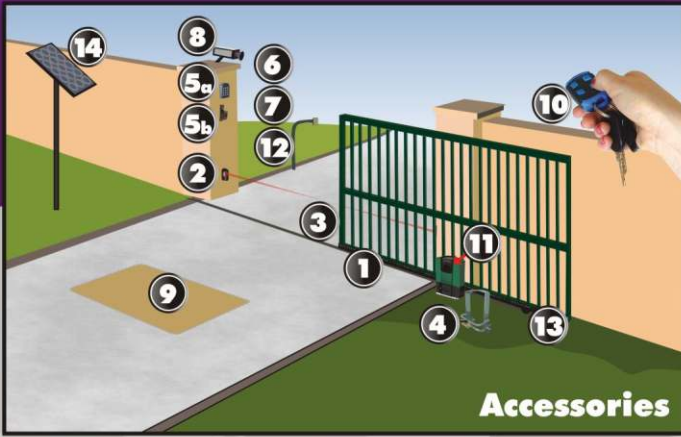
 physical connection to an external device, eg. Inductive Loop Detector, SmartGUARD keypad, etc.

 interfaces with onboard NOVA rolling code (Keeloq™ encryption) receiver

Aux IO - open collector output that can be used to drive an external relay for operating any external device, eg. water feature, security lights, etc.



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Accessories



1 Steel, Nylon RAZ or Nylon angle rack
A variety of rack available in different lengths, for different strengths



2 i5 Infrared beams
Always recommended on any gate automation installation



3 P36
Passive sensitive edge provides additional protection against crushing



4 Theft-resistant cage & padlock
Retro-installable steel cage that increases the resistance of the operator against theft



5a SmartGUARD keypad
Cost-effective and versatile keypad, allowing for access to pedestrians, armed response companies, etc.



5b Pedestrian keyswitch
Basic key operated switch, allowing for access to pedestrians



6 SOLO/Lattice Proximity Access Control System
Proximity reader, allowing for access to both pedestrians and vehicles, while offering a higher level of security than a keypad



7 POLOphone intercom
Allow visitors to communicate with residents inside in order to gain access to the property



8 POLOview surveillance
Enhances the POLOphone by providing CCTV at the gate



9 Inductive Loop Detector
Allows free-exit of vehicle from the property - requires ground loop to be fitted



10 NOVA transmitters
Available in one, two, three and four button variants. Incorporates Keeloq™ ultra-secure rolling code encryption



11 Backup Memory Module
Backup all the transmitters and operating details set up in the controller



12 Gooseneck
Steel pole for mounting intercom gate station or access control reader



13 Wheel kits
A variety of wheel kits are available from Centurion Systems



14 Solar supply
Alternative means of powering the system - consult Centurion Systems for details

Technical specifications

D5-Evo sliding gate operator

Input voltage	220V ± 10%, 50Hz ★
Motor voltage	12V DC
Motor power supply	Battery driven (standard capacity - 7Ah) [†]
Battery charger★	CP84SM - 2A @ 13.8V
Current consumption (mains)	170mA
Current consumption (motor at rated load)	10A
Operator push force - starting	30kgf
Operator push force - rated	17kgf
Gate mass - maximum	500kg
Gate length - maximum	100m
Gate speed (varies with load)⊕	18-22 m/min
Manual override	Thumbwheel behind locked door with key release
Maximum number of operations per day	150
Duty cycle - mains present ⊕	50%
Operations in standby with 7Ah battery	
Half day ⊕	44
Full day ⊕	35
Collision sensing	Electronic
Operating temperature range	-15°C to +50°C
Onboard receiver type	NOVA rolling code (Keeloq™ encryption) multichannel
Receiver code storage capacity	125 transmitter buttons
Receiver frequency	433MHz
Mass of unit packed (with standard kit, but excl. rack and battery)	10kg
Packaging dimensions (with standard kit, but excl. rack and battery)	303mm wide x 231mm deep x 432mm high

★ Can operate off a solar supply, consult Centurion Systems for assistance

† Can increase battery capacity for longer standby times

⊕ Gate opening and closing speeds can be configured to run slower depending on the requirements of individual installations

⊗ Based on 25°C ambient temperature and unit not in direct sunlight

⊛ Based on an operator push force of less than 50% of rated

◇ Based on four metre gate, excluding infrared safety beams

Overall dimensions

