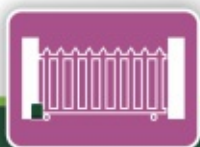
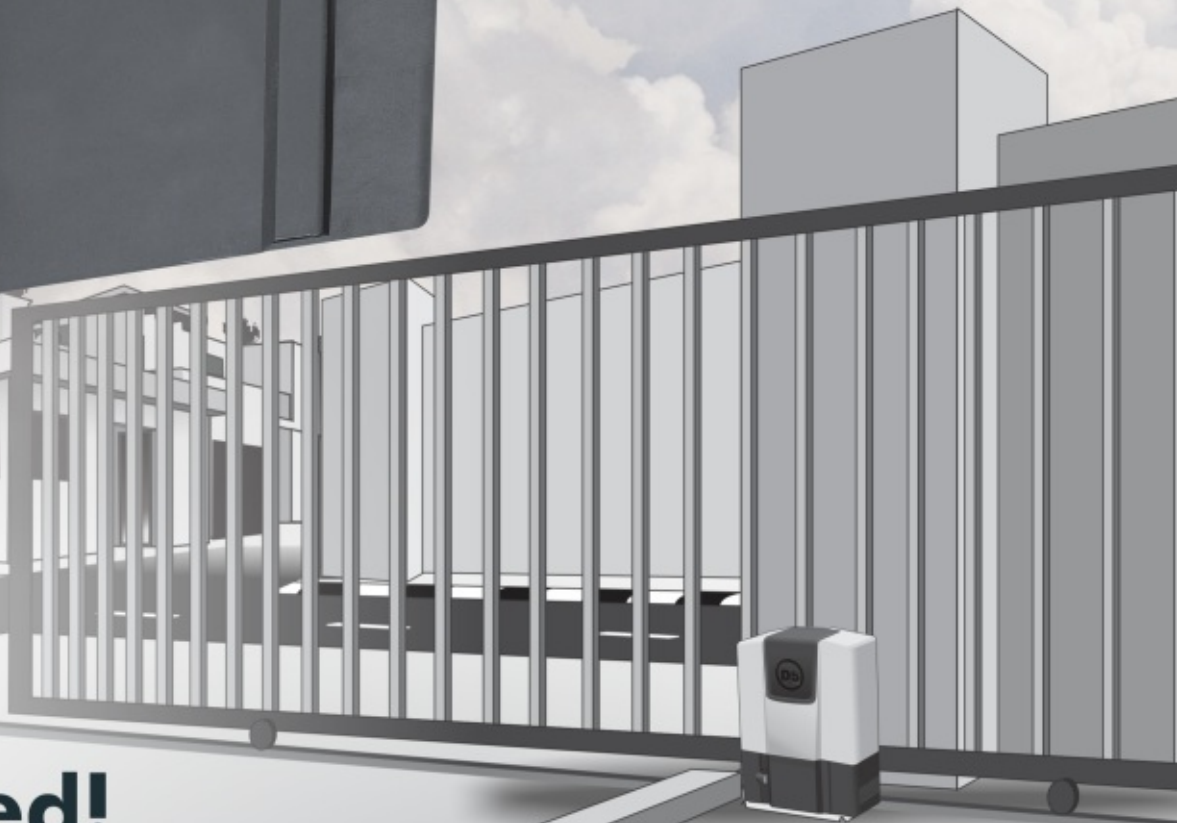




CENTURION



**Tried,  
tested,  
perfected!**



SLIDING GATE MOTORS



SWING GATE MOTORS



GARAGE DOOR MOTORS



REMOTE CONTROLS



INTERCOMS



SAFETY BEAMS



KEYPADS





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

One of the most durable and reliable motors 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 (a world first).

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 our **D5-Evo** is on guard.

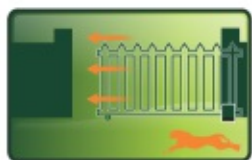
You can even enjoy the amazing features and functionality of our flagship motor if you don't have mains power at your gate - thanks to the **D5-Evo Low-Voltage**. Simply connect a transformer to this cost-effective model's included rectifier, and enjoy the freedom of fully DIY gate automation! No expensive high-voltage cable runs, no costly isolators, no sweat!

## Main Features



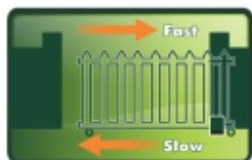
### Battery backup

We pioneered power failure protection in gate motors. So in line with all our other motors, 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 motor, 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.



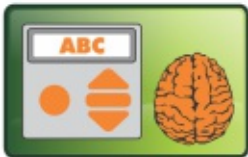
### Wide awake all the time!

Incorporating the tried and tested DOSS position control system of its predecessors, the D3 and D5, the **D5-Evo** moves open and closed accurately, 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.



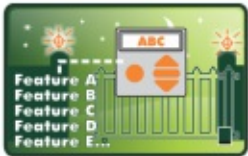
### It will turn heads

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!



### Forever yours

We know that this compact companion will serve you well - year, after year, after year. So just like all other CENTURION products, your beautiful **D5-Evo** motor also comes with an industry-leading 24 month warranty for added peace of mind.



### Alarm features (a world first) <sup>1</sup>

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.

<sup>1</sup>. Requires Infrared Safety Beams to be installed







## Operate wirelessly, thanks to CENTURION 2

Besides its code-hopping technology offering the highest level remote control security, this multichannel and multi-user CENTURION 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 500 transmitter buttons, and amongst other access control features, it provides the ability to selectively add and delete transmitter buttons saved into its memory.

2. CENTURION code-hopping technology



## 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
- **D5-Evo Low-Voltage** includes an electronic rectifier - making it the ideal cost-effective solution for sites with no mains power at the gate

### Electronic Features

- Opening and Closing Safety Beam/Photocell inputs with beam circuit functional test 3
- High-security cleared-beam Autoclose in conjunction with safety beam (PIRAC) 3
- Break-in and Ambush Alarm (a world first) with configurable outputs via onboard buzzer, Pillar Light Relay, etc. 3
- Multiple Modes of Operation: Standard Mode, Condominium Mode (multi-user), Reversing Mode, PLC 4 and Deadman Control Mode 5
- 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) 6
- Pedestrian Opening (adjustable opening and Autoclose time) 7
- Free-exit facility 8
- Holiday Lockout 7 - configurable as Emergency Stop 9
- Courtesy/Pillar Light Timer with adjustable time 10
- Fully configurable pre-delays with multi-modal Pre-flash 10
- 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 CENTURION code-hopping receiver 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** (a world first) 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.



3. Infrared Safety Beams or detection device must be fitted

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

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

6. Remote LED must be fitted

7. Onboard receiver must be used or external access control device such as keypad or keyswitch must be fitted

8. Infrared Safety Beams or Inductive Loop Detector must be fitted

9. To use this feature, a normally-closed emergency stop pushbutton must be fitted

10. Pre-flash security/Pillar Lights must be fitted

## ChronoGuard Timer Technology (a world first)

The **D5-Evo** is so advanced that it no longer needs humans to look after it. With the **CENTURION 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 CENTURION code-hopping 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

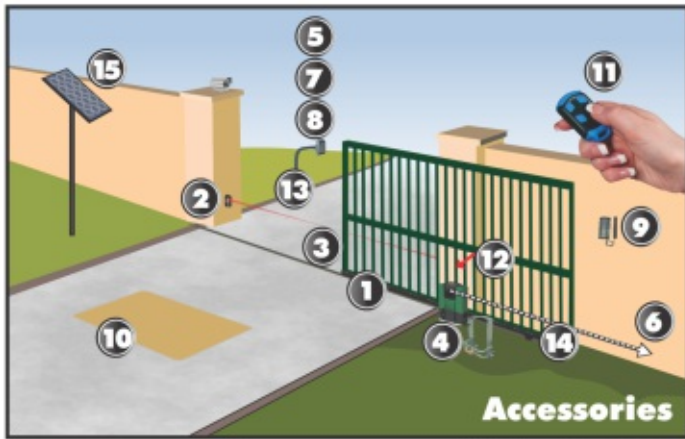
### Physical outputs

	Trg: Gate trigger	Ped: Pedestrian opening	FRX: Free-exit	Aux: Pillar light control	Lck/Stop: Holiday Lockout	Close: Closing safety beams	Aux IO: Auxiliary output	Light: Pillar light relay
<b>Time-activate</b>	X	✓	✓	✓	✓	✓	✓	X
<b>Time-bar</b>	Phys 	Phys 	Phys 	Phys 	Phys 	Phys 	Phys 	Phys 
	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	X X	✓ X	✓ X

 Physical connection to an external device, e.g. Inductive Loop Detector, SMARTGUARD keypad, etc.  Interfaces with onboard CENTURION code-hopping receiver

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





## Accessories



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



**2** Infrared Gate Safety Beams  
Always recommended on any gate automation installation



**3** P36  
Passive sensitive edge provides additional protection against crushing



**4** Theft-resistant cage and padlock  
Retro-installable steel cage that increases the resistance of the motor against theft



**5** SMARTGUARDair keypads  
Cost-effective and versatile wired and wireless keypads, allowing access to pedestrians



**6** Plug-in step-down transformer  
The perfect power solution for your D5-Evo Low-Voltage



**7** G-SPEAK 2G GSM-based intercom systems  
Use your mobile phone as the intercom handset! Open the gate and operate other electrical devices



**8** POLOphone intercom  
Allows visitors to communicate with people inside in order to gain access to the property



**9** GSM devices  
Allows for monitoring and activating the motor, via your phone, from anywhere in the world that has 2G GSM network coverage



**10** FLUX SA Loop Detector  
Allows free-exit of vehicles from the property - requires ground loop to be fitted



**11** CENTURION transmitters  
Available in one-, two-, three- and four-button variants. Incorporates code-hopping encryption



**12** Backup Memory Module  
Back up all the transmitters and operating details set up in the controller



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



**14** Wheel kits  
A variety of wheel kits are available from your local dealer



**15** Solar supply  
Alternative means of powering the system - consult your local dealer

## Technical Specifications

	D5-Evo	D5-Evo Low-Voltage
Input voltage	90V - 240V AC +/-10% @ 50Hz <sup>1</sup>	15V - 19V AC; 21V - 26V DC
Current consumption (mains)	170mA	NA
Battery charger amperage output (dependant on PSU input voltage)	90V AC input → 1A output	15V AC input → 400mA output
	240V AC input → 2.2A output	19V AC input → 1A output
Maximum numbers of operations per day	150	55
Duty cycle - mains present <sup>2,3</sup>	50%	20%
Motor voltage	12V DC	
Motor power supply	Battery-driven (standard capacity - 12V 7Ah) <sup>4</sup>	
Current consumption (motor at rated load)	10A	
Motor push force - starting	30kgf	
Motor push force - rated	17kgf	
Gate mass - maximum	500kg	
Gate length - maximum	100m	
Gate speed (varies with load) <sup>5</sup>	18 - 22m/min	
Manual Override	Lockable with key release	
Operations in standby with 7Ah battery		
Half day <sup>6</sup>	44	
Full day <sup>6</sup>	35	
Collision Sensing	Electronic	
Operating temperature range	-15°C to +50°C	
Onboard receiver type	CENTURION code-hopping multichannel receiver with selective add and delete	
Receiver code storage capacity	500 transmitter buttons	
Receiver frequency	433MHz	
Degree of protection	IP55	
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	

1. Can operate off a solar supply, consult your local dealer for assistance
2. Based on 25°C ambient temperature and unit not in direct sunlight
3. Based on an motor push force of less than 50% of rated
4. Can increase battery capacity for longer standby times
5. Gate opening and closing speeds can be configured to run slower depending on the requirements of individual installations
6. Based on four metre gate, excluding infrared safety beams

## Cabling Requirements for the D5-Evo Low-Voltage Motor

The diameter of the cable needed to supply power to the system will depend on the distance between the transformer and the motor, as well as on the output voltage of the transformer used.

The table below shows the typical cable thicknesses for corresponding distance and assumes a 16V AC transformer output.

Distance from transformer to motor	Minimum cable thickness required
Up to 20m	1mm <sup>2</sup>
20m - 40m	1.5mm <sup>2</sup>
40m - 60m	2.5mm <sup>2</sup>

## Overall Dimensions

