



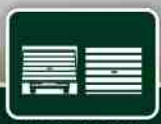
Brains AND brawn!



SLIDING GATE OPERATORS



SWING GATE OPERATORS



GARAGE DOOR OPERATORS



REMOTE CONTROLS



INTERCOMS



SAFETY BEAMS



KEYPADS





So much thought has been put into every aspect of the **D10** operator that we'll have to wait for technology to catch up before we can make any improvements!

It uses a battery driven high torque 24V DC motor, coupled to a robust gearbox, to provide an automation system that is fast, powerful and battery backed-up. Easy to set up, and easy on the eye, the **D10** has everything you'd expect from Centurion.

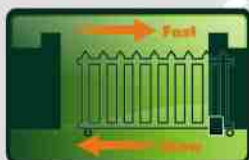
Add an LCD controller that can monitor diagnostics and set any function at the touch of a button, and you'll understand why you won't need another operator for a long time.

Main Features



Speed and power

Brains and brawn! A robust but quiet 24V DC motor, coupled with a precision die-cast aluminium gearbox, generates enough torque to shift a four metre gate in ten seconds. An oil lubricated gearset makes sure that the **D10** will just keep on going.



Intelligent speed control

An operator to suit your lifestyle. Play it safe and set your gate to move slowly so your children won't be hurt. If it's your security you are worried about, open the gate so fast that you don't have to slow down when you turn into your driveway. It will lock behind you in a matter of seconds. There's not much criminals can do with this Centurion standing in the way.



Battery backup

A 24V battery with rapid charger ensures that come low voltages, power spikes or failures, you can always get in or out!



Accurate and safe position control

With the **D10** on guard, there's no chance that your gates will damage your vehicle or hurt your children or pets. The tiniest obstruction will stop your gate dead in its tracks!



Attractive styling

This Centurion's sleek design and rugged yet modern armour will complement any driveway.



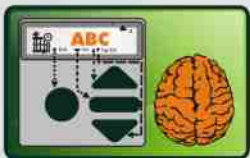
Jam-free manual override

An innovative conical design means no more jamming. The **D10** can be put into manual mode so effortlessly! No more smarting thumbs or put out backs.



Easy access for simple installations

Ready? With only two bolts required to secure the unit, this is our easiest unit to install yet! We've incorporated a jacking system so that levelling of the operator is a cinch. Mounting points are slotted allowing large adjustment to align the operator with the gate. Set. Go!



Intelligent automatic setup

Once you've got the **D10** in, it basically sets itself up. Use your LCD controller to follow an easy to use Q and A system that makes setting up things like gate end-of-travel limits as easy as setting the time on your watch. The **D10** does the thinking for you.



Multiple operating features

With so many features, you're going to have to buy the **D10** just to try them all out. Select the combination that best suits you. One of our favourites is Holiday Lockout mode. Once enabled, your gate will become totally immobilised. The only way to get in will be to go straight through – with something very large.



Onboard NOVA* receiver

Ever lost a gate remote or had it stolen? Then you know the hassle of gathering all your other remotes and reprogramming them. Safety no longer comes at a price. The **D10** can store up to 500 transmitter buttons which can be added and deleted through the LCD controller.

*NOVA rolling code (Keeloq™ protocol)





SLIDING GATE
OPERATORS



Alarm feature (optional)

Burglars have some nifty techniques to get into your home or estate. Fortunately, criminals can't outsmart the **D10**. An ambush alarm will alert your security company if the opening and closing beams are interrupted for a predefined time. Similarly, a break-in alarm will go off if the closing beam outside your house is interrupted for too long. Their gig is up.



Advanced diagnostics

As well as allowing you to set any function, the **D10's** LCD controller provides a user-friendly interface that lets you monitor the well-being of your operator. If anyone tampers with it, the **D10** will continue to work but will tell you what needs to be repaired via the LCD controller.



Controller features

Hardware

- 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 memory module allows backing up of all information set up in the system

Firmware

- Built-in multichannel NOVA rolling code (Keeloq™ protocol) with selective deletion of remotes
- Multiple modes of operation including standard mode, multi-user/condominium mode and reversing
- Full configuration of gate operating parameters including independent gate opening and closing speeds, ramp-up and ramp-down distances and crawl speed
- Automatic closing with adjustable time, pushbutton override and selectable according to gate status
- Positive close mode
- Multiple operating profiles to suit region– select between ZA, CE etc.
- Integrated ChronoGuard (patent pending) seven day timer and time barring functionality

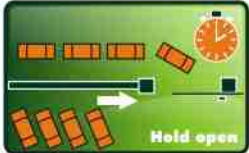
Optional auxiliaries

- Pedestrian opening (adjustable opening and auto-close time)
- Remote gate status indicator (gate position, power failure, low battery, multiple collision detection and pillar-light status indication)
- Courtesy / Pillar light timer with adjustable time
- Fully configurable pre-delays with multi-modal pre-flash
- Opening and closing safety beam inputs with beam circuit functional test
- Beam auto-close in conjunction with safety beam (PIRAC)
- Break-in and ambush alarm with configurable outputs via onboard buzzer, pillar light relay, etc.
- Holiday lockout – configurable as emergency stop
- Free-exit facility



ChronoGuard timer functionality

The **D10** is so advanced, it no longer needs humans to look after it. With Centurion's **ChronoGuard** (patent pending) timer technology on board, any of the **D10**'s features can be set to operate automatically at any time you choose. You can even set up different conditions - so your gate will automatically open at certain times on weekdays, but will know not to open on a public holiday. Once you've set up the **D10's ChronoGuard**, you'll start feeling particularly redundant. For instance:



If your factory is particularly busy during certain hours of the day from Monday to Friday, set the **D10** to keep the gates open during these times. During any other hour, or over the weekend or public holidays, you'll have to use your Centurion remote control, keypad, proximity reader, etc., to get in.



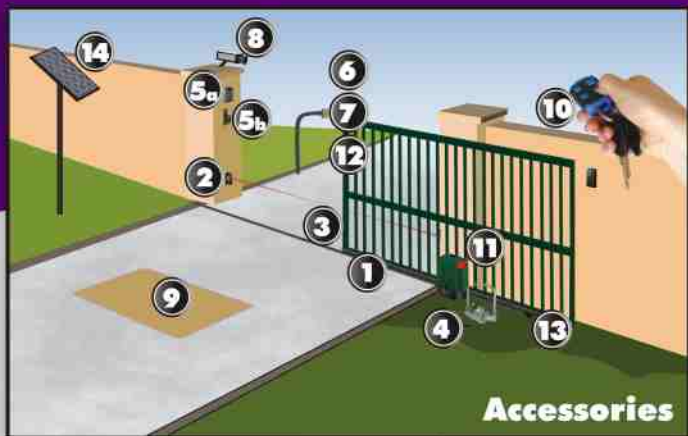
Although your gates will automatically open for vehicles leaving your premises during working hours, they will require the relevant control to get out after hours for added security.



Your staff can get in on weekdays – but can be locked out over the weekend or on public holidays.

ChronoGuard features

1. Activate any of the physical inputs to the controller (FRX, PED, LIT, LCK, XIO, IRBC) via an onboard timer
2. Time bar the following physical inputs (TRG, FRX, PED, LCK, LIT)
3. Time bar individual remote buttons learned into the onboard receiver where the time barring is associated with the functionality of the button
4. Onboard timer has the following functionality:
 - 100 time periods
 - Set time period for weekdays
 - Set time period for weekends
 - Set time period for any day of the week
 - Set time period for everyday of the week
 - Allow for holidays or special events during the year
 - Repeat fixed holidays on an annual basis
 - Multiple time periods during the day
5. Real time clock is backed up for at least one hour without connection to system battery supply



Accessories



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



2 15 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 for allowing access for pedestrians, armed response companies, etc. or see no 6



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



6 SOLO/Lattice proximity access control
Proximity reader for allowing access for both pedestrians and vehicles offering a higher level of security than the keypad



7 POLOphone intercom
Allow visitors to communicate with people 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 protocol



11 Memory module
Back up all the remotes 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



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

Technical specifications

D10 sliding gate operator

Input voltage	220V ± 10%, 50Hz*
Motor voltage	24V DC
Motor power supply	Battery driven (standard capacity - 2 x 7Ah)†
Battery charger	2A @ 27.5V
Current consumption (mains)	170mA
Current consumption (motor at rated load)	4A
Operator push force - starting	40kgf
Operator push force - rated	30kgf
Gate mass - maximum	1000kg
Gate length - maximum	20m
Gate speed (varies with load)	22-26 m/min
Manual override	Lockable lever with key release
Maximum numbers of operations per day	750
Duty cycle - mains present**	45%
Operations in standby with 7AH battery‡	
half day	87
full day	69
Collision sensing	electronic
Operating temperature range	-15°C to +50°C
Onboard receiver type	NOVA rolling code (Keeloq™ protocol) multi channel
Receiver code storage capacity	500 transmitter buttons
Receiver frequency	433MHz
Mass of unit packed (standard kit, excl. rack and battery)	13kg
Packing dimensions (standard kit, excl. rack and battery)	350mm long x 290mm wide x 490mm high

* Can operate off a solar supply, consult Centurion for assistance

† Can increase battery capacity for longer standby times

‡ 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

