

CONTROLLERS AND ANCILLARY ELECTRONICS

Not only do we stock a range of intelligent controllers for our own operators, but we even offer high-quality universal controllers that can be used for a wide variety of applications. In addition, our ancillary solutions are tailor-made to help you get the most out of your installation. All our controllers incorporate advanced onboard lightning protection and diagnostics.

CP75
DC Motor Controller
Product Code: **CP75**

Electronic controller for use with the R3 and R5 range of rotary swing gate operators.



Main Features

- Adjustable Autoclose timer – gate is never left open unnecessarily
- Diagnostic LEDs for easy programming
- Dedicated Pillar Light Relay
- The following onboard inputs and outputs are provided:
 - Free-exit input
 - Trigger input
 - Solenoid lock connection
 - 12V DC output for auxiliary devices such as external receivers, gate Safety Beams, etc.
 - Input for infrared Safety Beams
 - Pedestrian Opening input
 - Dedicated Holiday Lockout input
- Fuse-protected

CP77
DC Motor Controller
Product Code: **CP77 / CP7724V**

An incredibly versatile DC controller that can be used with a wide variety of swing and sliding gate operators, including Beninca, FAAC, SupaSlida and AutoMate.



Main Features

- Proven lightning protection
- High immunity to noise – not affected by external interference
- Micro-controller platform allows customisation – improved versatility
- Trigger input with local test button – useful for testing the operation of the device when a transmitter is not available
- Pedestrian Opening input - prevents unauthorised vehicle access
- Safety Beam input – connecting infrared Safety Beams dramatically increases the safety of the automated system
- Local and remote multi-function Gate Status LED
- Free-exit input (only opens gate) – ideal for fitting free-exit ground loops or pushbuttons in townhouse and high-volume vehicle access applications
- Holiday Lockout input – ensures that gate cannot be opened when homeowners are away
- Timed potential-free contact (e.g. Courtesy Lights)
- Low-voltage switching of potential-free contact
- Selectable/adjustable Autoclose timer (5 – 45 seconds)
- Override of Autoclose timer via trigger input
- Local diagnostic LEDs for easy programming
- Available in 12V and 24V DC variants

CP80
DC Motor Controller
Product Code: **CP80D3/D5**

Electronic controller for use with the D3 and D5 range of sliding gate operators.



Main Features

- Proven lightning protection
- Trigger input with local test button– useful for testing the operation of the device when a transmitter is not available
- Pedestrian Opening input - prevents unauthorised vehicle access
- Safety Beam input – connecting infrared Safety Beams dramatically increases the safety of the automated system
- Local and remote multi-function Gate Status LED
- Free-exit input (only opens gate) – ideal for fitting free-exit ground loops or pushbuttons in townhouse and high-volume vehicle access applications
- Holiday Lockout input - ensures that gate cannot be opened when home owners are away
- Timed potential-free contact (e.g. Courtesy Lights)
- Low-voltage switching of potential-free contact
- Selectable/adjustable Autoclose timer (1 – 255 seconds)
- Override of Autoclose timer via trigger input
- Local diagnostic LEDs for easy programming

CP87
DC Motor Controller
Product Code: **CP87**

A basic single-channel DC controller for use with sliding and swing gate operators.



Main Features

- Proven lightning protection
- Reliable position control via limit switches
- Pedestrian Opening input - prevents unauthorised vehicle access
- 12V DC output for auxiliary equipment such as an external radio receiver

CP75A
DC Motor Controller
Product Code: **CP75A**

An electronic interface for communicating with the master controller when a second R3/R5 rotary swing gate operator is installed.



CP88
DC Motor Controller
Product Code: **CP88**

Electronic controller for use with the CENTRY DC-operated traffic barrier.



Main Features

- Onboard sensitivity adjustment
- Inductive Loop Detector input
- Safety Beam input for fitting additional safety devices
- Selectable Autoclose – ensures that gate is never left open unnecessarily
- Local diagnostic LEDs for easy programming

CP200
Inverter Module
Product Code: **CP200EV3**



The Inverter rectifies the 230V AC input into 310V DC while also changing the single-phase input into the three-phase supply needed to operate the A10 electric motor.

CP91
AC Motor Controller
Product Code: **CP91**

The CP91 AC controller is a versatile controller designed to drive single-phase 220V AC motor systems. Reliability is enhanced through comprehensive surge and lightning protection, high noise-immunity and zero cross-switching.



Main Features

- Proven lightning protection
- High immunity to noise – not affected by external interference
- Micro controller platform allows customisation – improved versatility
- Trigger input with local test button – useful for testing the operation of the device when a transmitter is not available
- Pedestrian Opening input - prevents unauthorised vehicle access
- Safety Beam input – connecting infrared Safety Beams dramatically increases the safety of the automated system
- Local and remote multi-function Gate Status LED
- Free-exit input (only opens gate) – ideal for fitting free-exit ground loops or pushbuttons in townhouse and high-volume vehicle access applications
- Timed potential-free contact (e.g. Courtesy Lights)
- Low-voltage switching of potential-free contact
- Selectable/adjustable Autoclose timer (5 - 40 seconds)
- Override of Autoclose timer via trigger input
- Local diagnostic LEDs for easy programming
- 12V DC auxiliary supply at 150mA

CP93
Dual AC Motor Controller
Product Code: **CP93**

The CP93 Dual AC controller is a controller card designed to control a pair of gates driven by AC induction motors in various configurations.



Main Features

- Designed to allow full control of a set of double swing gates that interleave, irrespective of the operator, and with or without the use of limit switches.
- Installer User Interface allows full customisation of the various programming features
 - Adjustable relay switching time to prevent relay contact arcing
 - Trigger input with local test button – useful for testing the operation of the device when a transmitter is not available
 - Pedestrian Opening input - prevents unauthorised vehicle access
 - Safety Beam input – connecting infrared Safety Beams dramatically increases the safety of the automated system
 - Local and remote multi-function Gate Status LED
 - Free-exit input (only opens gate) – ideal for fitting free-exit ground loops or pushbuttons in townhouse and high-volume vehicle access applications
 - Timed potential-free contact (e.g. Courtesy Lights)
 - Low-voltage switching of potential-free contact
 - Selectable/adjustable Autoclose timer (1 - 255 seconds)
 - Override of Autoclose timer via trigger input
 - Local diagnostic LEDs for easy programming
 - 12V DC auxiliary supply for connecting Safety Beams, external receivers, keypads, etc.

CP201
AC Motor Controller
Product Code: **CP201V3**

Electronic controller for use with the A10 industrial sliding gate operator.



Main Features

- Proven lightning protection
- High immunity to noise – not affected by external interference
- Trigger input with local test button – useful for testing the operation of the device when a transmitter is not available
- Pedestrian Opening input – prevents unauthorised vehicle access
- Safety Beam input – connecting infrared Safety Beams dramatically increases the safety of the automated system
- Local and remote multi-function Gate Status LED
- Free-exit input (only opens gate)
- Timed potential-free contact (e.g. Courtesy Lights)
- Low-voltage switching of potential-free contact
- Selectable/adjustable Autoclose timer (1 - 255 seconds)
- Override of Autoclose timer via trigger input
- Local diagnostic LEDs for easy programming and diagnostics
- 12V DC auxiliary supply connecting Safety Beams, external receivers, keypads, etc.

D2 Turbo & D2 Turbo Low-Voltage DC Motor Controller

Product Code: D2 Turbo: **D2TC-D00V1** D2 Turbo Low-Voltage: **D2TC-D0LV1**

The exceptionally user-friendly interface used to configure the D2 Turbo domestic sliding gate operator, complete with charger and onboard CENTURION code-hopping multichannel receiver. The twin dial-system makes setting up and commissioning veritable child's play.

The D2 Turbo Low-Voltage controller has an input voltage range of 10V - 20V AC/10V - 28V DC, which means that it can be powered using a step-down transformer mounted in the house and fed via inexpensive low-voltage cables.



Main Features

- Fully-sealed plastic housing to prevent ingress of dirt and insects
 - Easy setup using the Function and Setting Dials and the pushbutton
 - Removable connectors for easy maintenance
 - Watchdog IC ensures full and safe operation of the controller
 - Optional Backup Memory Module allows backing up of all the information that has been set up in the system
 - Opening and Closing Safety Beam inputs with Beam Circuit functional test
 - High-security cleared beam Autoclose, in conjunction with Safety Beams (PIRAC)
 - Multiple Modes of Operation: Standard Mode, Open Only Mode, Reversing Mode, and two with operator Pre-flashing Modes
 - Automatic closing with adjustable time delay, and pushbutton override
 - Remote Gate-status Indicator (gate position, power failure, low battery, multiple collision detection and Pillar Light Status indication)
 - Pedestrian Opening
 - Holiday Lockout
 - Courtesy/Pillar Light (Fixed duration), with pre-delays and two Pre-flashing Modes
 - Selectable gate speed modes – Low Speed/High Speed (High Speed is the default)
 - Positive Close Mode (e.g. ensure activation of electric fence contact switch)
 - Onboard multichannel CENTURION code-hopping receiver with the ability to learn remote control buttons to specific functions (e.g. Gate trigger, Pedestrian Opening, Holiday Lockout)
 - Low-voltage AC or DC input – ideal for sites with no mains power at the gate ¹
 - No need to fit costly isolator ¹
- ¹. Applies to D2 Turbo Low-Voltage only

D5-Evo & D5-Evo Low-Voltage DC Motor Controller

Product Code: **D5CC-D00V1**

This cost-effective light-industrial sliding gate operator for gates weighing up to 500kg enables you to enjoy all the amazing features and functionality of the flagship D5-Evo – even if you don't have mains power at the gate. All that is needed to breathe life into the feature-rich LCD controller is a low-voltage input, easily obtainable via a step-down transformer and dramatically reducing installation costs.

The D5-Evo Low-Voltage controller has an input voltage range of 15V - 19V AC, which means that it can be powered using a step-down transformer mounted in the house and fed via inexpensive low-voltage cables.



Main Features

- Fully-sealed plastic housing for controller to prevent ingress of dirt and insects
 - Easy setup of controller using LCD 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
 - Opening and Closing Safety Beam inputs with Beam Circuit functional test
 - High-security cleared beam Autoclose, in conjunction with Safety Beams (PIRAC)
 - Break-in and Ambush Alarm (a world first) 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 delay, and pushbutton override
 - Remote Gate-status Indicator (gate position, power failure, low battery, multiple collision detection and Pillar Light Status indication)
 - Pedestrian Opening
 - Free-exit facility
 - Holiday Lockout – configurable as Emergency Stop
 - Courtesy/Pillar Light (fixed duration), with pre-delays and two Pre-flashing Modes
 - 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.
 - Low-voltage AC or DC input – ideal for sites with no mains power at the gate ¹
 - No need to fit costly isolators ¹
- ¹. Applies to D5-Evo Low-Voltage only

D10 DC Motor Controller

Product Code: **D10C-D00V2**

Using CENTURION's proven 24V DC technology, this is the complete solution for commercial and industrial gates up to 1000kg. A rock-solid die-cast aluminium gearbox and reliable battery backup make the D10 ideally suited for complexes with large gates and high traffic volumes, while an intelligent LCD controller with multiple Modes of Operation makes setup and diagnostics veritable child's play.



Main Features

- Fully-sealed plastic housing for controller to prevent ingress of dirt and insects
- Easy setup of controller using LCD 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
- Opening and Closing Safety Beam inputs with beam circuit functional test
- High-security cleared beam Autoclose, in conjunction with Safety Beams (PIRAC)
- Break-in and Ambush Alarm (a world first) 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 delay, and pushbutton override
- Remote gate-status indicator (gate position, power failure, low battery, multiple collision detection and Pillar Light Status indication)
- Pedestrian Opening
- Free-exit facility
- Holiday Lockout – configurable as Emergency Stop
- Courtesy/Pillar Light (fixed duration), with pre-delays and two Pre-flashing Modes
- 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.

V-Series Controller DC Motor Controller

Product Code: **VECC-D00V3**

There is virtually no limit to the capabilities of our swing gate operators; combining industry-leading functionality, world-class reliability and ease of installation, CENTURION swing gate operators truly are in a league of their own, with an intelligent logic controller.



Main Features

- Separate weatherproof housing for dual-channel controller, battery and charger
- 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
- 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)
- Multiple Modes of Operation, including Standard Mode and Condominium Mode (multi-user)
- Full configuration of gate opening parameters, including independent gate opening and closing speeds, ramp-up and ramp-down distances and end-of-travel crawl distance
- Automatic Closing with adjustable time, pushbutton override and selectable according to gate status
- Selectable leaf delay on either gate leaf
- Advanced Positive Close Mode ensuring the gate remains closed in a secure, rigid position
- Multiple Operating Profiles to suit region of installation – select between ZA, CE, etc.
- Pedestrian Opening (adjustable opening and Autoclose 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 Pre-flashing Modes
- Opening and Closing Safety Beam inputs with beam circuit functional test
- High-security cleared-beam Autoclose in conjunction with Safety Beams (PIRAC)
- Break-in and Ambush Alarms (a world first) with configurable outputs via onboard buzzer, Pillar Light Relay, etc.
- Free-exit facility
- Advanced solenoid or magnetic gate-lock release pulse

SECTOR / CLAWS Controller

Product Code: **SECC-D00V1**

Traffic barriers offer a formidable means of controlling vehicular access, and we have gone to great lengths to ensure that with the intelligent LCD controller CENTURION barriers are easy to set up and can handle the heaviest of traffic volumes while simultaneously offering superior security and a myriad features.



Main Features

- Fully-sealed plastic housing for controller to prevent ingress of dirt and insects
- Easy setup of controller using LCD 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
- Standard plug-in bases pre-configured for approved 12V DC closing and free-exit inductive loop detectors
- Adjustable and removable controller mounting tray for easy wiring and commissioning
- Barrier Raise and Lower inputs
- Memory and non-memory barrier activation
- 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)
- Full configuration of barrier operating parameters including independent pole raise and lowering speeds, ramp-up and ramp-down angles
- Automatic lowering
- Multiple Operating Profiles to suit region – select between ZA, CE, etc.
- Multichannel controller with integrated ChronoGuard timer technology (a world first):
 - Free-exit facility
 - Remote boom pole status indicator (pole position, power failure, low battery, multiple collision detection and security light status indication)
 - Courtesy/Pillar Light Timer with adjustable duration
 - Fully configurable pre-delays with Pre-flashing Modes
 - Safety/Closing Beam input with Beam Circuit function test
 - Lock/Emergency Stop input
 - Ticket Vend Interlock which enables connectivity to a ticket vending machine

Memory Module Backup Memory Module

Product Code: **PCA12201V1.0** (for D-Series Controllers); **CP108** (for SMARTGUARD/air keypad); **PCA11667V1** (for Lattice Controller)



Available in three variants, the Memory Module is used to create a backup of the onboard memory of all D-Series controllers (except VECTOR2), SMARTGUARD and SMARTGUARDair keypads, and the Lattice Controller. During a backup, the entire memory of the controller is backed up, including all settings and remote controls. In the case of the D-Series controllers equipped with ChronoGuard, all Time-periods that have been set, will also be backed up. This backup can then be used to restore the memory contents in the event that the controller has to be replaced.

CP76 Relay Rectifier PCB

Product Code: **CP76**



A useful and versatile card which can be used in many access control applications. Its purpose is to convert a 12V AC or DC voltage signal to a potential-free (voltage-free) contact.

Typical applications include:

- Converting the 12V AC output signal from an intercom (that is normally used for powering a strike lock), into a voltage-free contact that can be used to trigger a gate operator, a garage door operator, etc.
- Converting the open-collector outputs found on the CENTURION SupaSMART, SupaNOVA, SMARTGUARD (air) keypad, SOLO or Lattice proximity tag reader to a potential-free contact

CP78 Multi-LED Driver PCB

Product Code: **CP78**



The CP78 can be used to power multiple LEDs connected in parallel, and can also be employed for interlocking two operators. Most controllers provide only 4.5V on the LED output and can therefore power a maximum of three LEDs; however, the CP78 uses 12V DC to switch a relay via a transistor input and can provide power to an unlimited number of LEDs. This is especially useful in multi-user intercom applications comprising numerous handsets, where each handset requires a gate status LED.

CP79V2 Universal Timer Board/Pulse-stretcher

Product Code: **CP79V2.0**



This is a handy timer card, which can be used in many access control applications. A trigger input will latch the output for a variable time.

Typical applications include:

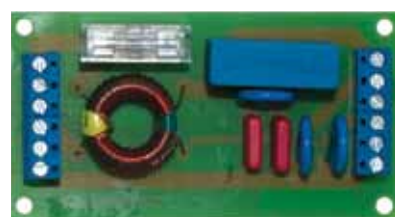
- Activating a continuous door strike
- Releasing a magnetic lock
- Driving a cooling fan
- Pillar Lights
- Alarms

CP102
Dual Sliding Gate Motor Sync Card
Product Code: **CP102**



The CP102 allows the user to seamlessly synchronise two operators by providing a common trigger. Once the trigger signal is applied, both operators will run in perfect synchronicity. This is useful on sites with extremely wide driveways where two automated gates close towards each other.

CS2
Surge Suppression Card
Product Code: **CS2**



The CS2 has been designed to electronically clamp down voltage spikes caused by lightning and power surges, thereby minimising the damage to electronic equipment that usually ensues following such an overvoltage condition.

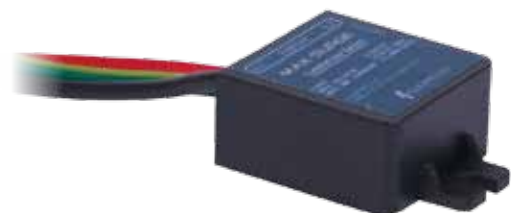
CP107
Battery Saver Module
Product Code: **CP107**



The CP107 is designed to prevent your 12V lead-acid battery from going below 10.6V during a mains power failure. Should the battery voltage drop to 10.6V during a mains power failure, the CP107 automatically disconnects the battery from the load circuitry. Once mains power is restored the battery saver automatically resets, allowing your battery to recharge to full capacity.

The CP107 is supplied with colour-coded wiring and pre-attached lugs, making it quick and easy to connect to any 12V system. Once connected, the CP107 is small enough to be tucked away inside the various CENTURION enclosures.

CL12
Mains Supply Surge Limiter
Product Code: **CL12-00370**



Protect your gate motor's electronics by fitting a mains supply surge limiter upstream. The CL12 'clamps' high voltages and offers effective protection against lightning and power surges.



It all adds up!

10 000 000 000
possible security codes for the SMARTGUARD or SMARTGUARDair keypads

0

wires needed to install a SMARTGUARDair keypad

1986

The year CENTURION was founded

metres per minute - the speed of our fastest gate motor

50

16 128

man hours for our Technical Call Centre per year

30

kgf - the push force of our D10 sliding gate motor

320

staff members

5

awards won by CENTURION and our products

200 000

the number of the decisions a D5-Evo makes per second whilst moving a gate

100

the number of automatic time-based functions that our D-Series controllers allow

The first choice for all your access automation needs

1

54

countries that we export to

15 700

m² of our SA production facility

730

the minimum number of days that batteries will last in the Photocells

80

the average number of programmable features on a D-Series controller

the number of users that can be learned into a SupaHelix with GSM receiver

20 000