

**D10 SMART**

**D10 TURBO SMART**

# INDUSTRIAL SLIDING GATE OPERATOR

SMART.  
The intelligent choice

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**SMART ACCESS TO YOUR HOME OR BUSINESS**

## INTELLIGENT SECURITY FOR YOUR GATE

The legendary high-volume performer.  
The powerhouse of heavy-duty access control.  
The intelligent choice in commercial and industrial gate automation.

With its powerful 24V motor and die-cast aluminium gearbox, the **D10 SMART** sliding gate motor packs a potent punch, providing excellent security on sites ranging from townhouse complexes and residential estates to busy office parks and warehouse facilities.

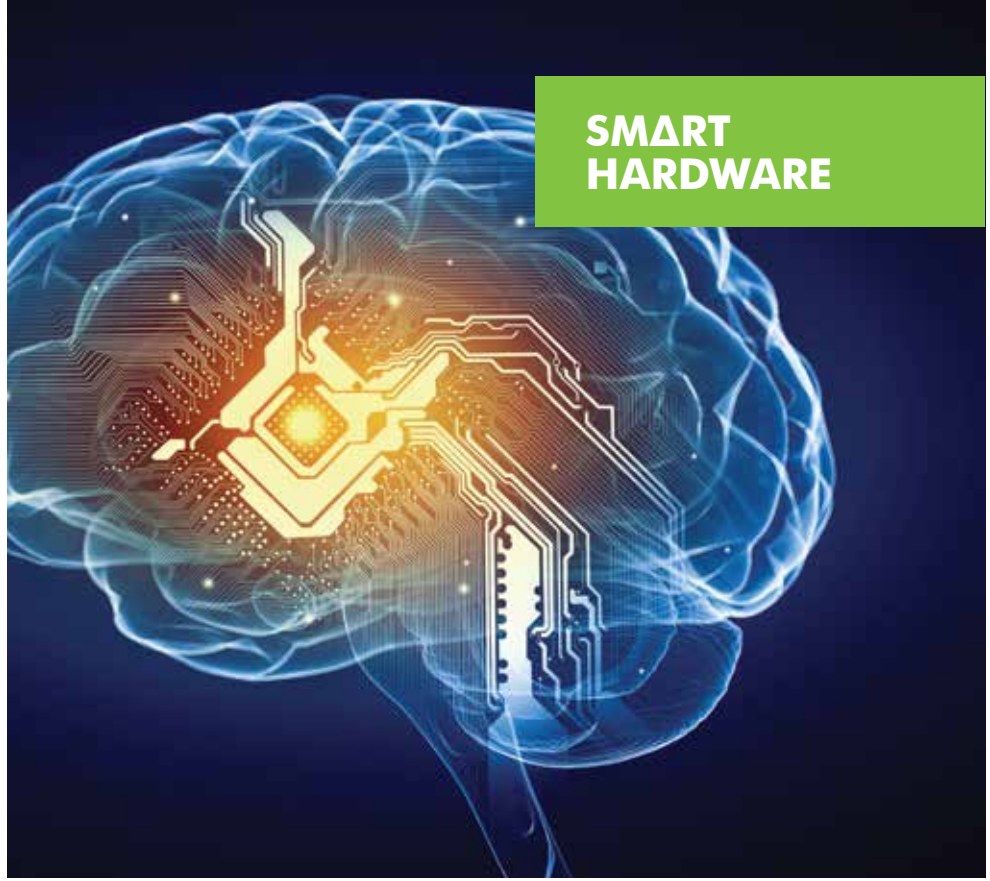
Level up with the lightning-fast **D10 Turbo SMART**, the perfect solution for sites requiring high levels of security and capable of moving a gate weighing up to 250kg at a blistering speed of up to 45 meters per minute.

Both operators use a battery-driven high-torque DC motor, coupled to a robust gearbox to provide an automation system that is quick, powerful and battery backed-up – perfect for industrial and commercial applications where heavy gates are installed and reliability is a must.

And now – you can have speed, security, endurance and reliability, quicker and easier than with any other gate motor in the D10's class, thanks to **SMART** technology and wireless connectivity.

Use the tie-in MyCentsys Pro installer app for wireless and effortless setup of the gate limits and configuration of the operator's many innovative features, as well as instant access to advanced diagnostics and system health. An interactive dashboard and graphic wizards give installers the full **SMART** experience.

Easy to set up and easy on the eye, the **D10 SMART** range has everything you'd expect from the access automation industry leaders.



## MAIN FEATURES

### Attractive styling

These gate operators' sleek design and rugged, yet modern cover will complement any driveway.

### SMART speed

Pushing the limits of technology, the **D10 SMART** range moves even the heaviest of gates like greased lightning, helping to protect against tailgating and ensuring safe and secure entry and egress from the premises.

### SMART hardware

Not only is the **D10 SMART** beautifully-styled, but it provides the best experience for installers with easy access to mounting hardware, backward compatibility (drop-in replacement) on existing D10 and A10 base plates, optimised cable routing and a dedicated accessory tray for complementary solutions such as GSM modules.

### SMART connectivity

Set the gate limits, speed, automatic closing and unique profiles for everyone using the gate, with just a few taps.

### SMART security

We've designed a patented theft-deterrent bracket for the **D10 SMART** that threads through the gearbox. Additionally, the unit has a built-in vibration sensor that can be linked to an alarm to alert you to movement or tampering at the gate, potentially helping to prevent theft of the gate motor as well as break-ins. You can even link the sensor to your armed response company to ensure swift reaction in the event of these scenarios.

### SMART diagnostics

The days of spending hours in the blazing sun or pouring rain and wasting precious time trying to diagnose your client's gate motor are officially over thanks to CENTURION and **SMART** technology. The MyCentsys Pro mobile app connects wirelessly to our **D10 SMART** gate motor and gives you instant access to advanced, in-app diagnostics and logs, monitoring system health in real time and reporting on the state of the controller, batteries and operator power supply.





# SMART ADVANCED DIAGNOSTICS

## 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 allow the **D10 SMART** to shift a four-metre gate in just ten seconds – and the **D10 Turbo SMART** is even quicker. An oil-lubricated gearset makes sure that these operators will just keep on going.

## Uninterrupted security and convenience

In the event of a power outage, the last thing you want is to be stuck outside your gate, which isn't only hugely inconvenient, but can also pose a risk in high-security installations. You also want to avoid a scenario where you are unable to leave your property because a power outage during the night has completely drained your gate motor's battery.

Our new **D10 SMART** sliding gate motor comes with a dependable 24-volt battery backup system, allowing continued operation for up to 120 cycles during power outages<sup>1</sup>.

1. Dependant on pull force and the number of accessories connected to the operator

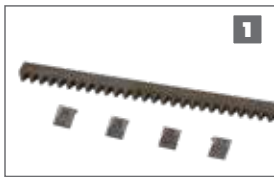
## Accurate and safe position control

The unit boasts advanced safety features and cutting-edge obstruction detection technology, ensuring that your gate isn't only secure, but completely safe. The **D10 SMART** also incorporates hall-effect technology, which offers the highest level of reliability and positional accuracy, as well as the best protection against contaminants.

## Operate wirelessly

The **D10 SMART** can store up to 1500 individual NOVA remote controls – and now, with the new MyCentsys Pro mobile app, managing the remote control database just couldn't be easier. MyCentsys Pro enables you or your installer to quickly and effortlessly add, edit, delete and label remotes as well as setting up each individual button's associated functionality, for example opening a gate fully or for pedestrians, saving you time, allowing you to customise each remote control button to suit individual needs, and making life easier for everyone.

## ACCESSORIES



**Steel Rack**  
Steel rack is available in different lengths to accommodate any gate



**Photon SMART Safety Beams**  
Fully-wireless infrared beams. Always recommended on any SMART automated installation



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



**Gate Stations**  
Communication hub for the G-SPEAK ULTRA GSM intercom – available in both durable plastic and stylish and strong metal enclosures



**SMARTGUARD or SMARTGUARDair Keypad**  
Cost-effective and versatile wired and wireless keypad, allowing access to users with a customised code



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



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



**Theft-Deterrent Cage & Padlock**  
Patented design provides excellent deterrence against theft, tampering and vandalism



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



**Wheel Kits**  
A variety of wheel kits are available from your CENTURION dealer



**Solar Supply Solution**  
Alternative means of powering the system - consult your CENTURION dealer



**G-ULTRA**  
The ultimate GSM solution for monitoring and activating the operator via your mobile phone



**G-SPEAK ULTRA**  
Answer your intercom from anywhere for maximum security and convenience - powered by 4G technology



**12V-24V SMART Siren**  
The ultimate security companion, designed to seamlessly integrate with your existing SMART gate and garage door operators (not shown in diagram)



**SMART PowerPack**  
Power unwavering gate performance for busy sites. Run your gate directly from mains. Optional battery backup for added flexibility

## TECHNICAL SPECIFICATIONS

Technical Data	D10-SMART	D10 TURBO-SMART		
Input voltage	110V - 240V AC @ 50/60Hz <sup>1</sup>			
Current consumption (Mains)	590mA			
Battery charger current output	1.8A@ 27.6V (+/-5%), 52W			
Maximum number of operations per day	750 <sup>3,6</sup>			
Duty cycle - Mains present <sup>2,3</sup>	45%	25%		
Motor voltage	24V DC			
Motor power supply	Battery-driven (Standard Capacity - 2x 12V 7.2Ah)			
Current consumption (motor at rated load)	8A	10A		
Input / Output sink currents (Max accessory current draw)				
I/O 1-4	100mA (12/24V)			
I/O 5 and 6	3A (12/24V) 10sec Pulse			
Motor push force - starting	40kgf	24kgf		
Motor push force - rated	30kgf	18kgf		
Gate mass - maximum	1000kg	250kg <sup>8</sup>		
Gate length - maximum	50m	50m		
Gate speed (varies with load) <sup>4</sup>	Up to 26m/min <sup>4</sup>	Up to 45m/min <sup>8</sup>		
Manual Override	Lockable with key release			
Drive Pinion	17T Module 4	20T Module 4		
Operations in standby with 2x 7Ah batteries	<b>Operating Modes</b>			
	Power Saving 15m/min 15kgf	Normal 26m/min 15kgf	Power Saving 15m/min 9kgf	Normal 45m/min 9kgf
Half day <sup>2,5,6</sup>	118	63	189	130
Full day <sup>2,5,6</sup>	93	50	150	104
Collision Sensing	Electronic			
Operating temperature range	-15°C to +50°C			
Onboard receiver type	Code-hopping multichannel receiver with selective add and delete			
Receiver code storage capacity	1500 Remotes <sup>7</sup>			
Receiver frequency	433.92MHz			
Degree of protection	IP54			
Mass of unit packed (with standard kit, but excl. rack and battery)	13kg	13.5kg		
Packaging dimensions (with standard kit, but excl. rack and battery)	350mm wide x 282mm deep x 470mm high			

- Can operate off a solar supply, consult your local dealer for assistance
- Based on 25°C ambient temperature and unit not in direct sunlight
- Based on a motor push force of less than 50% of rated (Starting and Running forces)
- Gate opening and closing speeds can be configured to run slower depending on the requirements of individual installations
- Can increase battery capacity for longer standby times
- Based on 4m gate, excluding all accessories
- Multiple buttons per remote can be used
- Refer to the table below for **D10 TURBO SMART**'s recommended gate speed for specified gates masses

## OVERALL DIMENSIONS



## RECOMMENDED SPEEDS AND GATE MASSES FOR THE D10 TURBO SMART<sup>1</sup>

Max Speed (M/Min)	Gate Mass (Kg)
45	250
41	300
36	400
32	500
29	600 <sup>2</sup>
27	700 <sup>2</sup>
25	800 <sup>2</sup>
24	900 <sup>2</sup>
23	1000 <sup>2</sup>

- If a **D10 TURBO SMART** is used on a gate over 250Kg, the speed must be reduced according to the table above to ensure that the gate can be safely stopped in an emergency.
- Centurion Systems (Pty) Ltd recommends the use of a **D10 SMART** for gates over 500KG.