

# GRIFCO®

POWERING COMMERCIAL DOORS

*eDrive*  
+2.0

**OPERATOR FOR COMMERCIAL AND INDUSTRIAL  
ROLLER SHUTTERS AND GRILLES**



## GRIFCO®

OVER 100 YEARS OF AUSTRALIAN MANUFACTURING

# eDrive +2.0

The industry-leading benchmark for quality, reliability and intelligence.

eDrive +2.0 has been relied upon for years to deliver lasting performance for traditional spring-balanced roller shutters and grilles. Its power and adaptability is matched by its onboard, expandable logic, resulting in an intelligent, modular workhorse that is widely trusted as the proven performer.

- Purpose-designed gearbox with a range of powerful motors
- Multiple configuration options to suit a broad range of applications
- Electronic limits with radio on board
- Multiple models to select from to suit your application
- A broad and modular range of accessories



## LASTING PERFORMANCE

The purpose designed gearbox and AC motor combine to deliver extremely reliable, powerful operation. eDrive +2.0 is manufactured in Australia



## SAFE AND COMPLIANT

Meets all applicable regulatory standards. Utilise Grifco's broad range of safety accessories to achieve a safe and compliant installation



## INTELLIGENCE AND FLEXIBILITY

Straight out of the box the Grifco +2.0 logic is ideal for car park applications. An expansion board is also available for advanced functionality



## MULTIPLE ACCESSORIES

Grifco offers a complete range of accessories to improve the safety and convenience of your commercial door installation

## Standard Shutters and Doors

Grifco claims operator performance based on door area. These claims are based on what we regard as a "standard" roller shutter. Please refer below our standard shutter or door assumptions. The eDrive +2.0 range comprises 0.5Hp, 1.0Hp, and 1.5Hp operators in single and 3-phase variants with Low Cycle and High Cycle options.

### Standard Roller Shutter Assumptions

All recommended door sizes are based on a "standard roller shutter" (refer below):

- The shutter is correctly spring balanced
- The shutter has  $\leq 1.0\text{mm} \times \geq 100\text{mm}$  slats
- The shutter has no wind-locks
- A sprocket ratio  $\geq 4:1$  is used
- Diameter 150mm drum for doors  $\leq 36\text{m}^2$
- Diameter 200mm drum for doors  $\leq 50\text{m}^2$

### Non Standard Roller Shutters

Some consideration should be given to increasing the sprocket ratio or operator size if a roller shutter falls outside the standard configuration above. Grifco technical support can provide guidance if required.

### Duty Cycle

Grifco offers motors with differing duty cycle (operational) ratings to ensure we are able to provide the most efficient and cost effective match for your commercial door automation requirements.

- Low cycle refers to approx 10% duty, which equates to 6 minutes of run time per hour
- High cycle refers to approx 30% duty, which equates to 18 minutes of run time per hour

## Engineered and manufactured in Australia

The Australian Chamberlain Group factory in West Gosford NSW manufactures the eDrive +2.0 operator. It is continually updated with modern manufacturing equipment and processes to maintain an excellent level of craftsmanship and quality. Grifco has been manufacturing for over 100 years in Australia.



A leading warranty from the only Australian manufacturer of roller shutter operators.

Grifco's warranty covers the entire operator and is supported by our national Field Service Technicians and our Customer Service Centre.

eDrive  
+2.0



## Intelligent and Expandable Logic

Straight out of the box, the eDrive +2.0 is ready for the bulk of typical commercial and industrial applications. The logic board is feature packed, with multiple configurations for door behaviour and settings.

For applications with additional requirements, the expansion board offers further benefit, such as relay configuration and dock leveler interface. See page 5 for the expansion board and page 7 for a detailed look at the eDrive +2.0's logic boards.

## Automatic Chain Engage

In the absence of power, the roller shutter or grille can be manually operated via the hauling chain. The Automatic Chain Engage Mechanism (ACEM) disengages the motor to the gearbox when the chain is pulled, allowing safe and easy operation in the absence of power.

## Absolute Positioning Encoder

The eDrive +2.0 utilises Chamberlain Group's proven Absolute Positioning Encoder technology to control the door limits and direction.

## Included Accessories

eDrive +2.0 is supplied with the low-voltage C10A-4 wired wall control. This enables most door configuration settings to be performed at ground level and also communicates diagnostics. Also available are advanced wall controls, found on page 5.

## Multiple Configurations

The full range of Grifco eDrive +2.0 operators are designed to suit the needs of most traditional roller shutters. With choices of power supply, motor size, duty cycle and handing, there is a product to suit your needs.

## Security +2.0 Remote Control

eDrive +2.0 features the industry-leading SECURITY +2.0 REMOTE CONTROL radio technology. This advanced platform cuts through interference, and ensures consistent, reliable and long range operation.

Transmitter management can be easily added to the installation, with the addition of the STAR1000EVO device.

# eDrive +2.0



## Operators for Roller Shutters



Part No.	kW	Amps	Hp	Voltage	Phase	Max. Door Size	IP Rating	Duty
<b>eDrive +2.0 Operator   Low Cycle   Three Phase 415V</b>								
ML5053	0.37kW	1.55A	0.5Hp	415V	3ph	18m <sup>2</sup>	IP44	Low Cycle
ML5103	0.75kW	2.3A	1.0Hp	415V	3ph	36m <sup>2</sup>	IP44	Low Cycle
ML5153	1.10kW	2.55A	1.5Hp	415V	3ph	50m <sup>2</sup>	IP44	Low Cycle

<b>eDrive +2.0 Operator   Low Cycle   Single Phase 240V</b>								
ML5051	0.37kW	3.4A	0.5Hp	240V	1ph	18m <sup>2</sup>	IP44	Low Cycle
ML5102	0.75kW	6.0A	1.0Hp	240V	1ph	36m <sup>2</sup>	IP44	Low Cycle

<b>eDrive +2.0 Operator   High Cycle   Three Phase 415V</b>								
MH5103	0.75kW	1.95A	1.0Hp	415V	3ph	30m <sup>2</sup>	IP44	High Cycle

<b>eDrive +2.0 Operator   High Cycle   Single Phase 240V</b>								
MH5102	0.75kW	4.35A	1.0Hp	240V	1ph	30m <sup>2</sup>	IP44	High Cycle

<b>eDrive +2.0 Operator   Low Cycle   Three Phase 415V   Smoke Baffle Feature</b>								
ML5103SBF	0.75kW	2.30A	1.0Hp	415V	3ph	36m <sup>2</sup>	IP44	Low Cycle
ML5153SBF	1.10kW	2.55A	1.5Hp	415V	3ph	50m <sup>2</sup>	IP44	Low Cycle

<b>eDrive +2.0 Operator   Low Cycle   Single Phase 240V   Smoke Baffle Feature</b>								
ML5102SBF	0.75kW	6.0A	1.0Hp	240V	1ph	36m <sup>2</sup>	IP44	Low Cycle

When ordering please specify an "L" or an "R" at the end of every part number.

No Neutral (N)    Pre-Wired (P)    IP55 (W)    Clutch (C)

### Optional Upgrades

+	+	+	+
+	+	+	+
+	+	+	+

-	✓	+	+
-	✓	+	+

+	+	+	+
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-	✓	+	+
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+	+	+	+
+	+	+	+

-	✓	+	+
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When ordering please specify the appropriate abbreviation (found above) before the "L" or "R" handing. For example RML5051WR  
 ✓ As standard    - Not available    + Optional Upgrade

## Operator Kits for Roller Shutters



Part No.	kW	Amps	Hp	Voltage	Phase	Max. Door Size	IP Rating	Duty
<b>eDrive +2.0 Operator   Low Cycle   Monitored Safety Beams   Transmitters</b>								
ML5103RO	0.75kW	2.3A	1.0Hp	415V	3ph	36m <sup>2</sup>	IP44	Low Cycle
ML5102RO	0.75kW	6.0A	1.0Hp	240V	1ph	36m <sup>2</sup>	IP44	Low Cycle

Kit includes eDrive +2.0 Operator, C10A-4 Wall Control, GPS15 Safety Beams and 2 x E960G Wireless Keyring Transmitters.

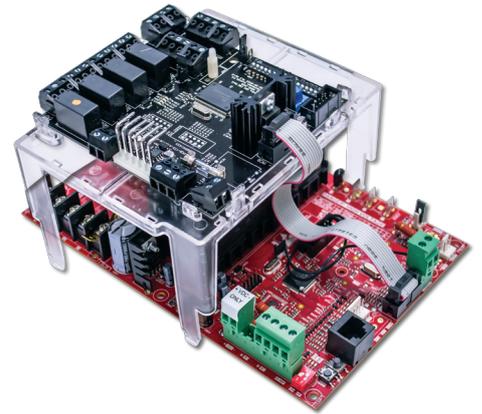


# Expansion Board

## eDrive +2.0 Expansion Board Kit

Part No.	Description	For Use With
<b>eDrive +2.0 Expansion Board</b>		
<b>EB1</b>	EB with Mounting Cradle & eDrive +2.0 High Lid	eDrive +2.0 Operator

*All remote access devices are compatible with eDrive +2.0 operators.*



**EB1**  
With Mounting Cradle and High Lid  
for eDrive +2.0

# Wall Controls

## eDrive +2.0 Wall Controls

Part No.	Description	Enclosure Material
<b>eDrive +2.0 Wall Control   Basic Operation</b>		
<b>C10A-4</b>	Standard eDrive +2.0 Control	Plastic
<b>C10AW-4</b>	Standard eDrive +2.0 Control, Waterproof	Plastic
<b>C30A</b>	Standard eDrive +2.0 Control	Metal

*C10A-4 is supplied standard with all eDrive +2.0 Operators.*

<b>eDrive +2.0 Wall Control   Key Switch Operation</b>		
<b>C21B</b>	Includes Basic Key Isolator	Plastic
<b>C41B</b>	Includes Basic Key Isolator	Metal
<b>C23B</b>	Includes "Lock-it-Well" Key Isolator	Plastic
<b>C43B</b>	Includes "Lock-it-Well" Key Isolator	Metal
<b>C21D-2</b>	Includes Multi-Mode Key Isolator	Plastic
<b>C41D-2</b>	Includes Multi-Mode Key Isolator	Metal

*"Lock-it-Well" Key Isolator features re-keyable cylinder.  
Multi-Mode Key Isolator features Off, Auto, Auto/Manual Modes.*



C30A



C21B



C41B



C23B



C43B

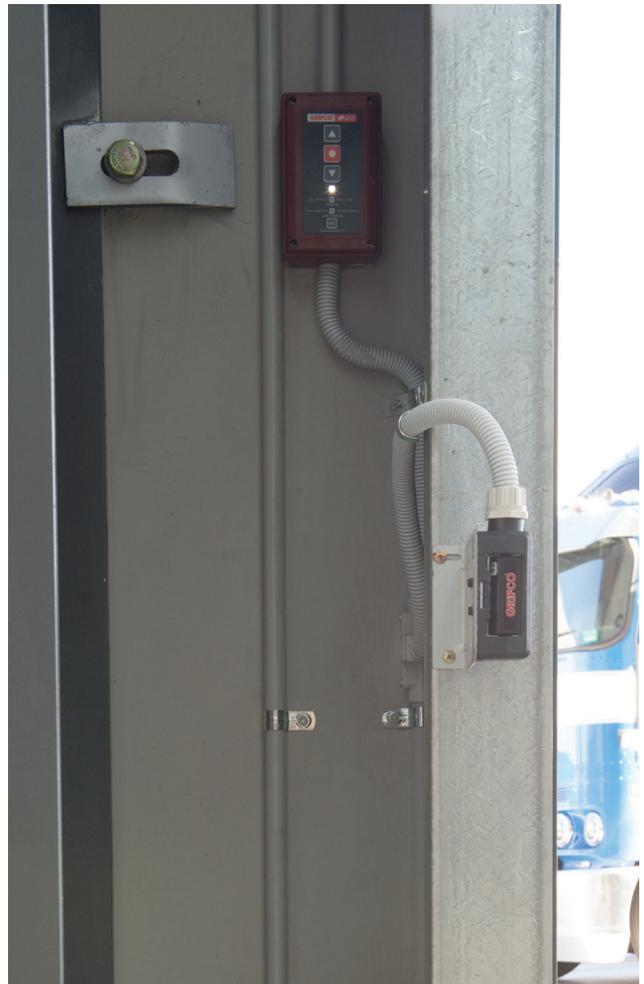
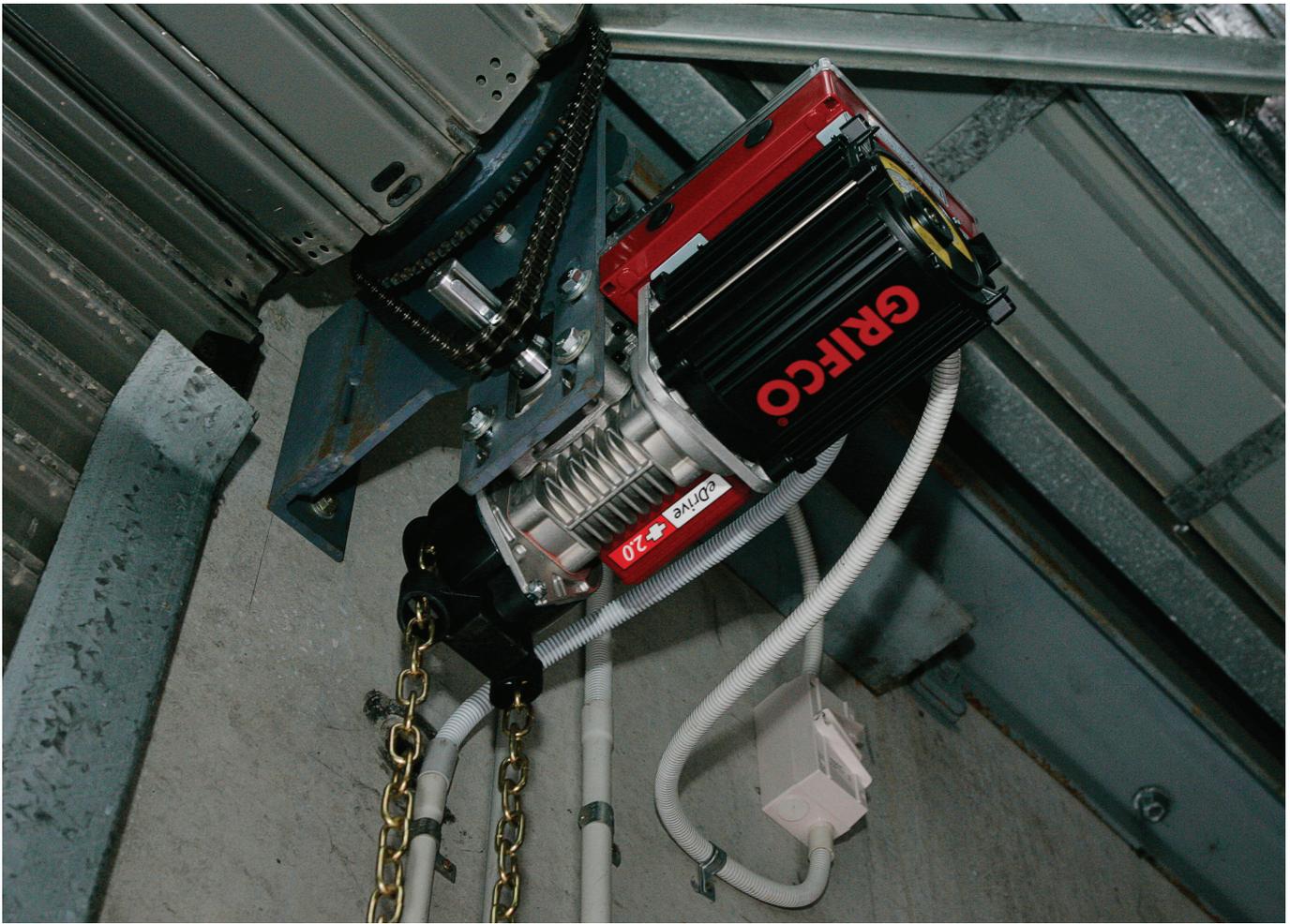


C21D-2



C41D-2

Part No.	Description
<b>eDrive +2.0 Wall Control   Spare Parts</b>	
<b>SA-500-1-SALES</b>	C10A-4 Control Lid Assembly Only
<b>EB-P011-1</b>	C10A-4 Control Base Only
<b>R455</b>	Replacement key for basic locks (C21B, C41B, C21D-2, C41D-2)



# eDrive +2.0 Control Boards



## Connection to Wall Control

Connection to the low voltage C10A-4 wall control (supplied with eDrive +2.0) or advanced wall controls

## Learn Button

Dedicated learn button for up to 64 Security +2.0 transmitters

## Reset Button

Reset safety beams when required

## Inching & Latching

Dip switches offer selection between 'inching' & 'latching' door behaviour in both open & closed directions

## Monitored Entrapment Protection Inputs

Inputs for 2 monitored safety beams and 1 safety edge

## 24V 150mA Power Supply

Unregulated constant power supply for peripherals such as sirens & lights

## Power Connection

240V single phase or 415V three phase power connection

## Door Activation Inputs

Wire in key switches, push buttons or card readers for open, stop or close

## Extended Limit Option

Wired input to send door to 3rd limit position

## DIP Switches

16 dip switches for door configuration behaviour

## Auto-Close Fine Adjustment

Infinite adjustment of auto-close time up to 5 mins

## Service Connection

Terminal for diagnostics & debugging of software (Grifco only)

## C10A-4 Control Panel

Multiple functions at the wall control:

- Limit setting
- Power indicator
- Auto-close (10 sec increments)
- Fault diagnostics
- Door direction
- Remote learning
- External key switch options
- E-Stop for auxiliary emergency stop control

## Access Control Devices

Toggle input for access devices such as card readers, loop detectors or the Grifco STAR1000EVO transmitter management system

## Service Connection

Terminal for diagnostics & debugging of software (Grifco only)

## Mechanically Interlocked Contactors

Safety device for motor protection

## Dock Leveller Integration

Connect to a dock levelling device via relays 1 & 2

## 4 Relays for External Devices

Allow devices such as lights & sounders to behave in certain ways or connection to building management outputs

- Relay 1: Open Status
- Relay 2: Closed Status
- Relay 3: Door Moving Status
- Relay 4: Service Required (with DIP Switch configuration)

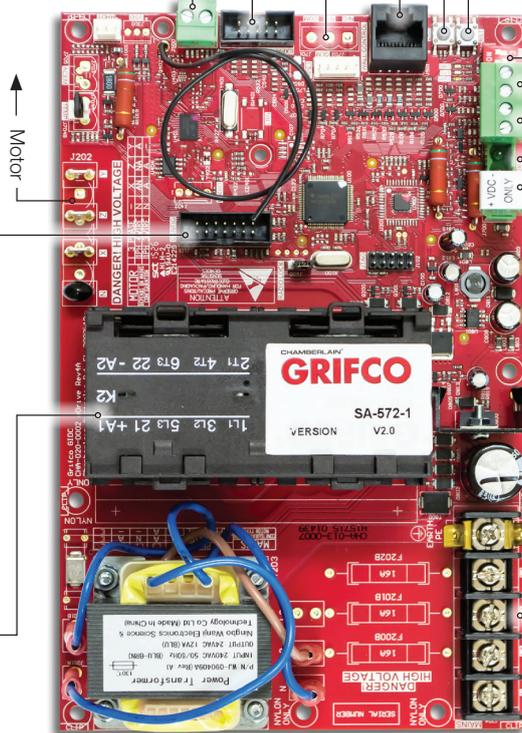
## Coaxial Antenna Connection

Connection for antenna

## External Receiver Cards

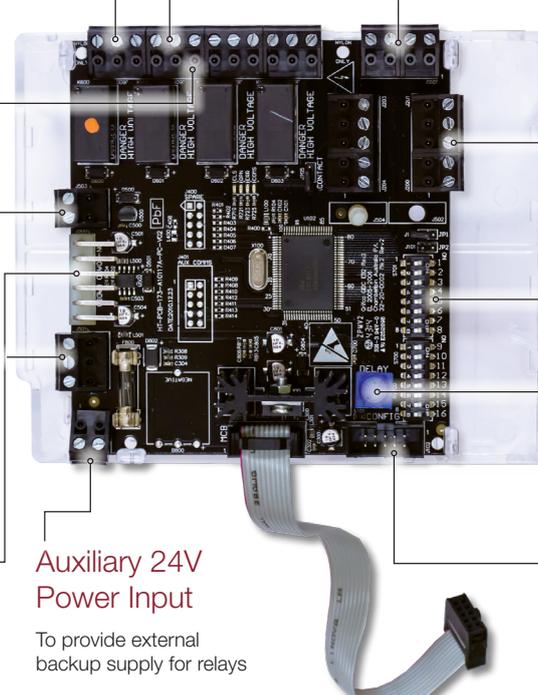
Connection for industry standard receiver cards

APE Encoder  
Expansion Board



Motor

"BUMP"  
"IR2"  
"IR1"



## Auxiliary 24V Power Input

To provide external backup supply for relays

# Accessories

eDrive +2.0 is available with a huge range of accessories to improve the safety, convenience and building integration of your commercial door opening.

Please consult the relevant brochure for more information.



eDrive +2.0 operators have radio on board and can operate with a range of remote access devices. All feature advanced Security +2.0 technology to ensure secure connection and excellent range.

Note monitored safety devices are needed to allow the door to close with the single press of any button.

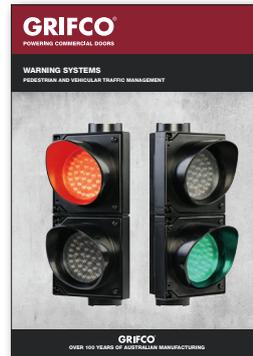


Grifco offers a range of monitored safety beams that prevent or stop a door from closing. Beams should be positioned in a manner that provides a safe and complaint door opening, in accordance with the relevant safety standard.



For the ultimate in entrapment protection, the Monitored Light Curtain provides safety across the entire working plane of the door opening.

The 1,500mm of detection field captures movement in the door opening, beyond what a single beam is capable of.



Warning systems are an easy addition to any door installation that provide visual or audible warning to pedestrians and motorists.

Typical in carpark applications, traffic lights, flashing lights and sounders are also a useful addition for industrial applications.



The Grifco Transmitter Management Pack is ideal for multi-tenanted applications such as carparks in apartment buildings.

It combines with the STAR1000EVO transmitter management device to manage multiple transmitters for the entire building.

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