

FSA[®]

FENESTRATION
SOLUTIONS
AUSTRALIA

CATALOGUE
FENTEC[®] ECO ELECTRIC ACTUATORS



nekos  TELECO



MAKING
LIFE
BETTER

WHAT WE STAND FOR

Everyday we live our overarching purpose; to make life better for our team, our customers and to drive our industry forward. To be better than yesterday and committed to a better tomorrow through everything we do.

Ultimately, we inspire architectural innovation and improve homes to create enjoyable and efficient lifestyles. We search the world over to source the most desirable, innovative and superior products available for the Australasian market.

Combining stunning aesthetic design, state-of-the-art features, and first-class thermal efficiency, FSA introduces incredibly smart solutions for Australian window & door manufacturers and their customers.

Our experience and research reflects a detailed understanding of local and international markets, technical expertise and a dedication to exceptional customer service and streamlined support. This is exemplified in our extensive portfolio demonstrating our commitment to making life better.



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5	OVERVIEW
	Operating Forces
	Types of Openings
6	ELECTRIC ACTUATORS
	FENTEC Eco
	FENTEC Syncro
	Applications
9	AUTOMATION ACCESSORIES
	FENTEC Motor Kits
	Sensors

NEKOS is a reality emerging from the creation of ideas for the automation of window products, transforming the philosophy of thought into simple avant-garde creations for your window.

The natural results of research and development combine with direct experience in the field to ensure that each item is created from the concept of one common technology for the full automation of window systems.

Production is a promise of quality that accompanies each phase, from the selection of materials to manufacturing processes and accurate checks. Sensitive to change and particularly to the demands of the market, NEKOS leads the sector of the home products industry with innovation, technology, design, quality and reliability.

The **CE** mark on their products, packaging and user manuals provided you with the confidence that you have a quality product.



The FENTEC® ECO electric winder series is designed and produced for the specific requirements of the Australian market.

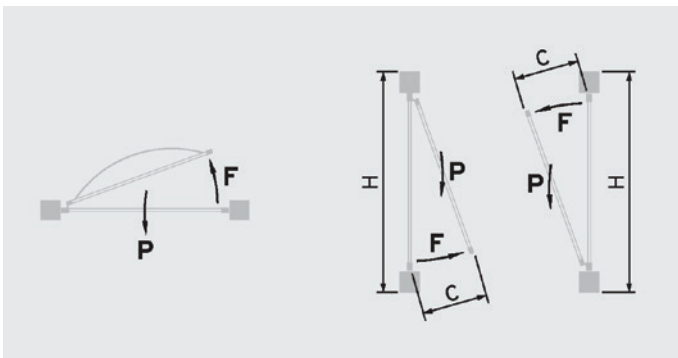
The design brief was challenging, so we engaged and collaborated with our long term partner, Nekos, one of Italy's leading companies in fenestration automation. The goal was to create a product that was small in stature and large in features, but at the same time, didn't compromise on quality. It also had to be the best value for money electric winder available. With the Kato range of actuators as the benchmark, we set off on a 3 year journey of design, discussion, testing and research to end up with what we believe is going to be a market leading product range.

The FENTEC® ECO winder is the perfect stand-alone solution for any home or project, and by utilising the FENCTEC® or TELECO range of automation accessories, its functionality can be expanded to suit nearly every requirement.



OPERATING FORCES

Before mounting an actuator to the frame verify that it has the proper characteristics required to the task it has to do. To ensure you have the model with the appropriate push/pull force, verification can be done using the following simple formulas.



F = Force required to open and close - kg
P = Window weight (only movable part) - kg
C = Window opening truck run (actuator truck run) - cm
H = Window height - cm
1 N (Newton) = 0,102 kg
1 kg = 9,81 N

FORMULA

SKYLIGHT $F = 0.54 \times P$

OUTWARDS $F = (0.54 \times P) \times (C:H)$

TYPES OF OPENINGS

OUTWARD OPENING (AWNING)
hinged on the top, outside opening,
actuator mounted inside on the sill.



INWARD OPENING (TILT)
hinged on the bottom, inside opening,
actuator mounted inside on top of frame.



SKYLIGHT (PITCHED ROOF)
hinged on the top, outside opening,
actuator mounted inside.



SKYLIGHTS (HORIZONTAL)
hinged on a side, outside opening,
actuator mounted inside.



OUTWARD OPENING (CASEMENT)
hinged top and bottom, outside opening,
actuator mounted inside on jamb.



FENTEC ECO

250N Chain Actuator



MODEL	ECO 230V	ECO 24V
Force exerted by traction	250N	
Strokes	125, 240 & 360mm	
Synchronised Function	NO	NO
Power supply voltage	110/240V~(AC)	24V (DC)
Rated absorbed current at nominal	0,14 / 0,8 A	0,50 A
Power absorbed at nominal load	10 W	12 W
No Load Speed	5mm/s	6mm/s
Stroke duration at load (360mm)	72 s	60 s
Electrical insulation	Classe II	Classe III
Type of service	2 cycles	5 cycles
Operating temperature	-20 - +70°C	
Protection index for electrical devices	IP42	
Soft Stop Function	YES	
Relax function	YES	
Adjustment of connection to window frame	Automatic definition of position	
Parallel powering of 2 or more motors	YES - max 20	
Length of power cable	2m	
Stroke-end at opening	Electronic by trimmer	
Stroke-end at closing	At absorption of power	
Overload protection	At absorption of power	
Static holding force	1600N	
Dimensions	33 x 42 x 380, 5mm	
Weight (without brackets)	0.850kg	0.800kg

The data indicated in these figures is not binding and is subject to variation without notification.

ECO 230VAC	
Part No.	Colour
F-ECO-C GY	Grey
F-ECO-C BK	Black
F-ECO-C WH	White
ECO 24V	
F-ECO24-C GY	Grey
F-ECO24-C BK	Black
F-ECO24-C WH	White

Key Features

- Compact & symmetrical
- Available in 230V AC and 24V DC* versions
- Simple installation
- Adjustable chain stroke (125, 240, 360mm) selectable by screwdriver
- Pivoting mounting bracket and sash bracket
- 250N linear force

Design and Functionality

- Microprocessor controlled, used as a stand alone or connected to BMS
- Installation in parallel possible - multiple actuators operate simultaneously
- Adjustable Chain Stroke
- Torque release after closing
- Numerous mounting options

Quality and Reliability

- Designed and manufactured in Italy
- Compliance to relevant standards & requirements.

Safety and Features

- Built-in overload protection to prevent injuries and safeguard electronic components
- IP42 Rating
- Double insulation

FENTEC ECO SYNCRO

Actuator for coordinated synchronization



TECHNICAL SPECIFICATIONS

MODEL	ECO SYNC 230V	ECO SYNC 24V
Force exerted by thrust	250N	
Strokes	125, 240 & 360mm	
Synchronised Function	YES (max 4)	YES (max 8)
Power supply voltage	110/240V~(AC)	24V (DC)
Rated absorbed current at nominal	0,25 / 0,14 A	0,50 A
Power absorbed at nominal load	13 W	12 W
No Load Speed	4.5mm/s	6mm/s
Stroke duration at load (360mm)	80 s	60 s
Electrical insulation	Classe II	Classe III
Type of service	2 cycles	5 cycles
Operating temperature	-20 - +70°C	
Protection index for electrical devices	IP42	
Soft Stop Function	YES	
Relax function	YES	
Adjustment of connection to window frame	Automatic definition of position	
Parallel powering of 2 or more motors	YES - max 20	
Length of power cable	2m	
Stroke-end at opening	Electronic by trimmer	
Stroke-end at closing	At absorption of power	
Overload protection	At absorption of power	
Static holding force	1600N	
Dimensions	33 x 42 x 380, 5mm	
Weight (without brackets)	0.850kg	0.800kg

The data indicated in these figures is not binding and is subject to variation without notification.

ECO SYNCRO 230VAC	
Part No.	Colour
F-ECOSY-C GY	Grey
F-ECOSY-C BK	Black
F-ECOSY-C WH	White
ECO SYNCRO 24V	
F-ECOSY24-C GY*	Grey
F-ECOSY24-C BK*	Black
F-ECOSY24-C WH*	White

*NON-STOCKED (SPECIAL ORDER) ITEMS.

Key Features

- Perfectly co-ordinated synchronisation of two to eight actuators
- Full electronic real-time synchronisation.
- Compact and symmetrical
- Available in 230V AC and 24V DC* versions
- Simple installation
- Adjustable chain stroke (125, 240, 360mm) selectable by screwdriver
- Pivoting mounting bracket and sash bracket
- 250N linear force

Design and Functionality

- Microprocessor controlled, used as a stand-alone or connected to BMS
- Installation in parallel possible - multiple actuators operate simultaneously
- Adjustable Chain Stroke
- Torque release after closing

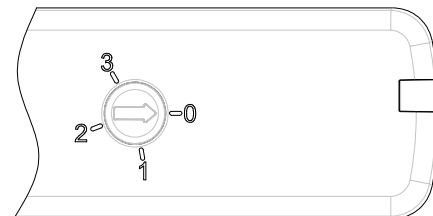
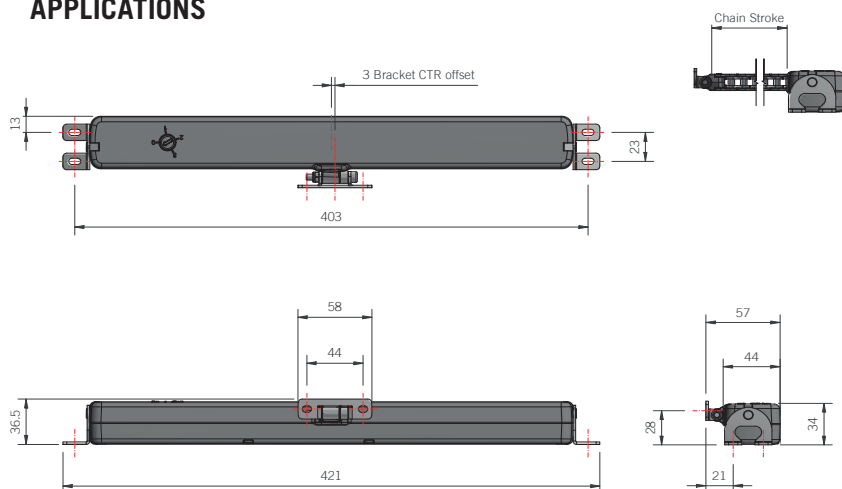
Quality and Reliability

- Designed and manufactured in Italy
- Compliance to relevant standards & requirements

Safety and Features

- Built-in overload protection to prevent injuries and safeguard electronic components
- IP42 Rating
- Double insulation

APPLICATIONS



0 = RESET

1 = 125mm

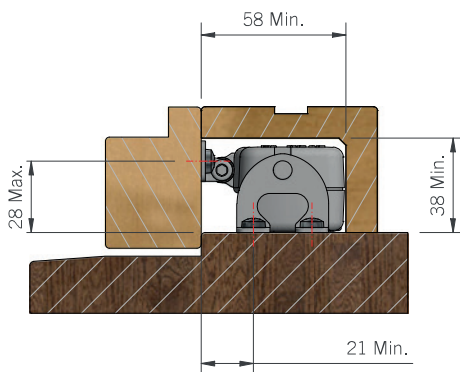
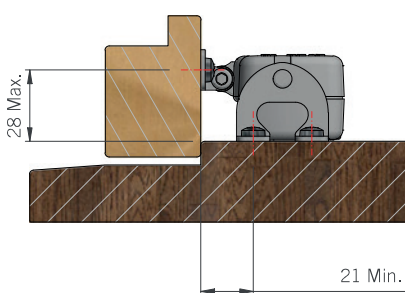
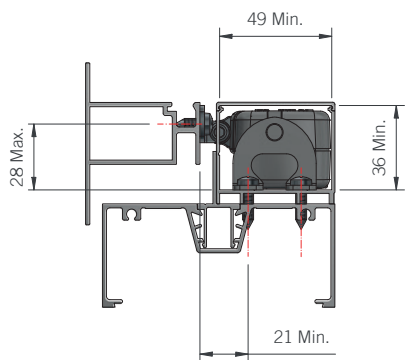
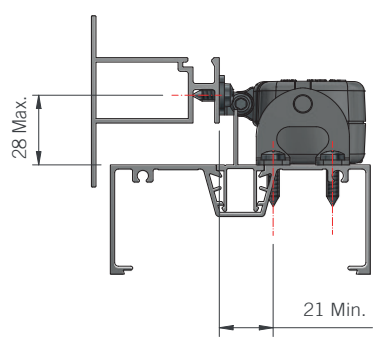
2 = 240mm

3 = 360mm

Awning Windows			
Stroke (mm)	125	240	360
Min Sash Height (mm)	150	250	350
Max Weight (kg)	56	48	45

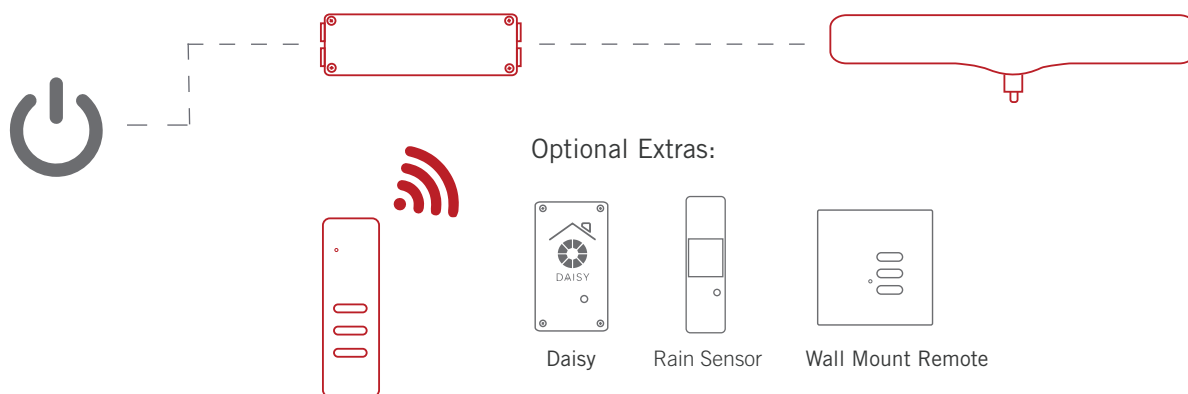
NOTE: as sash height increases so does maximum sash weight

The FENTEC® range of electric actuators adjustable chain / stroke is set by means of the rotary switch located on the top of each actuator.

APPLICATION	CONCEALED INSTALL	STANDARD INSTALL
TIMBER	 <p>Dimensions for Timber Concealed Install: 58 Min., 28 Max., 38 Min., 21 Min.</p>	 <p>Dimensions for Timber Standard Install: 28 Max., 21 Min.</p>
ALUMINIUM	 <p>Dimensions for Aluminium Concealed Install: 49 Min., 28 Max., 36 Min., 21 Min.</p>	 <p>Dimensions for Aluminium Standard Install: 28 Max., 21 Min.</p>

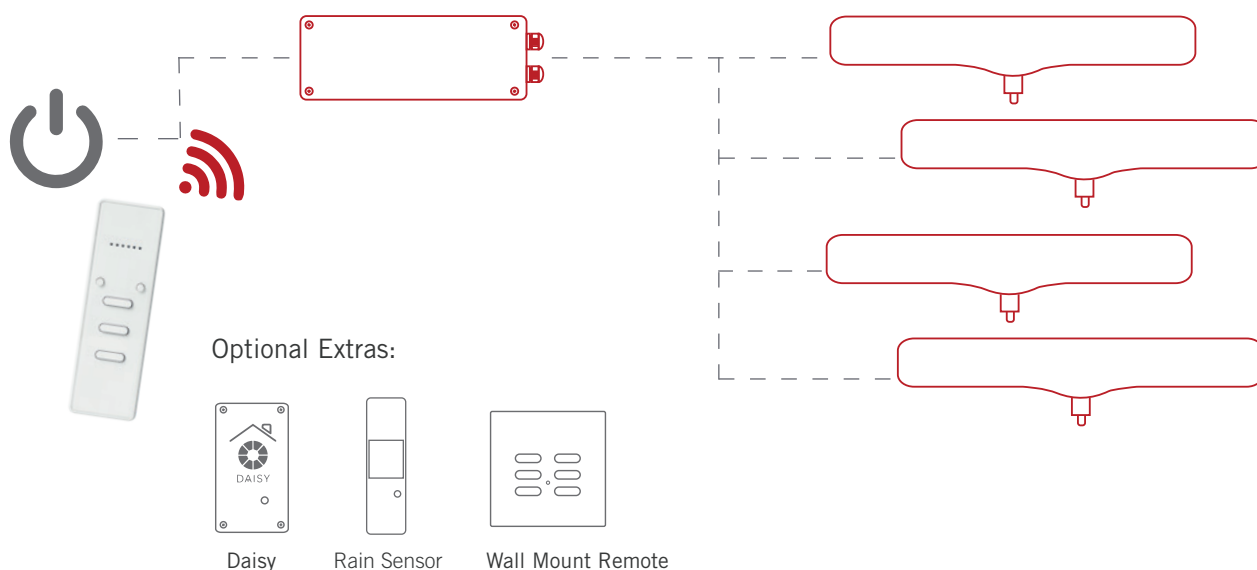
FENTEC® SINGLE MOTOR KIT

FENTEC® 1 MOTOR CONTROL KIT INC 3 BUTTON REMOTE				
Part No.	Power Supply	No. of outputs	Protection Rating	Dimensions
F-TELCK1	240V	1	IP54	115x65x40mm



FENTEC® FOUR MOTOR KIT

FENTEC® 4 MOTOR CONTROL KIT INC 6 CHANNEL 3 BUTTON REMOTE				
Part No.	Power Supply	No. of outputs	Protection Rating	Dimensions
F-TELCK4	240V	4	IP54	230x70x74mm



Key Features:

- Closed 916mhz Frequency
- Control 1, 2, 3 or 4 Motors off one Kit
- Pre-Programmed for quick and easy set up
- Simple touch pairing for additional remotes
- Optional Weather Sensors for climate control
- Optional Smart Phone control over Wi-Fi via "Daisy" application
- Possibility to incorporate blinds, awnings, louvres, as well as integration with Home Automation systems

For the full range of accessories please refer to FSA TELECO Catalogue for Full details.

DAISY



DAISY CONTROLLER VIA WIFI			
Part No.	Power Supply	Protection Rating	Dimensions
TE-DAISY	240V	IP20	115x65x40mm

Key Features

- Daisy lets you interact with all automated systems from anywhere in your home, even from a distance, with Smartphone or Tablet
- Simple to create scenes and programmable weekly timer
- Remote control via Wi-Fi through the creation of a free account in the Teleco Cloud
- Voice control of Teleco systems using the Google Home or Amazon assistant
- Compatible with any Android (version 4.4 and later) and iOS (version 10 and later) device. We recommend installing the latest version of the operating system.

FENTEC® RAIN SENSOR KIT



240V RAIN SENSOR KIT - WIRELESS			
Part No.	Power Supply	Protection Rating	Dimensions
F-RAINW	24Vdc	IP65	130x50x37mm

Key Features

- LED indications for sensor status feedback sensor
- Heating function to avoid false activation due to ice or snow
- Programming magnet to configure the desired sensitivity and heating function without opening the device
- Fixing support supplied
- Equipped with automatic survival signalling

Full kit includes 240V power supply and 24Vdc transformer.

WIND SENSOR



WIND SENSOR WIRELESS		
Part No.	Protection Rating	Dimensions
TE-WIND	IP44	11x165x121mm

Key Features

- Compatible with the 4 motor controller kit
- Select from 8 wind speeds, from 40Km/hr to 75Km/hr
- Can be connected to up to 3 controllers
- Potential to manage up to 12 individual windows or 24 syncro motors

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