

# KINGgates®

Quality is our family feeling



Technologies for gates and doors

Made in Italy



KINGgates®

Welcome

# Index

Company highlights	. 4	Electronic control units	. 56
Automation for sliding gates	. 18	Radio systems	. 68
Automation for swing gates	. 22	Control devices	. 82
Barrier automation	. 38	Photocells	. 84
Automation for sectional and overhead doors	. 42	Flashing lamps	. 86
Automation for rolling shutters	. 54	Safety devices	. 88

## Company

A reliable partner focused on customer service



### Dynamic subject

KINGgates is an Italian company that produces and markets automations for doors and gates.

Present on the home automation market from March 2006, KINGgates brand has been distinguished for the willingness to grow and to innovate, offering a reliable product and a fast service. Today, KINGgates is present in more than 30 countries all around the world, and it is still growing thanks to its ability to offer easy, reliable and safe solutions, through its own made in Italy production.

### Choosing KINGgates

To take part of the KINGgates world means to take the opportunity to work with a young and dynamic group, careful to the technical and commercial needs of the customer, and able to accomplish the demands of the market.

Who chooses KINGgates, has the guarantee of a direct relationship and of a fast and efficient technical support.

Who chooses KINGgates, offers something new, safe and secure.



# Mission

Resolve the problems in 3 steps



## Quality

At the base of everything, is the quality. A quality visible in the products, of the materials, and on the production control, but also the quality of the service and technical support. The quality to simplify the work, and make the life of KINGgates installers easier.

## Safety

To offer safety means to offer a reliable and enduring product, certified and able to fulfill the European certifications UNI EN 12445 and UNI EN 12453. The KINGgates technology is at the service of the installer, and a guarantee for the end user.

## Direct relationships

We strongly believe that there must be a direct, frank, and sincere relationships between customer and supplier, in order to improve the technical solutions and the commercial opportunities. Every suggestion and every criticism is a boost to improve, to win new challenges every day.

## Product

Technology and design for fast, safe, and enduring installations



### A full range

KINGgates produces automations for sliding and swing gates, for automatic barriers, for sectional doors, for overhead doors, and rolling shutters. The KINGgates range comprehends 230 Vac and 24 Vdc automations, radio systems, accessories for safety and for signaling. Careful to the needs of the professional market, KINGgates can also develop and supply customized solutions.

### Made in Italy design

A KINGgates product is distinguished by its design, which expresses sturdiness, strength, but also dynamicity and beauty at the same time. Designed for an easy and intuitive use, the KINGgates products harmoniously integrate into existing environment thanks to their slight colors and their sober shapes. The new series of transmitters “Stylo” and “Myo”, with chromed metal frame, are examples of Italian creativity and... made in KINGgates.

### Certified Technology

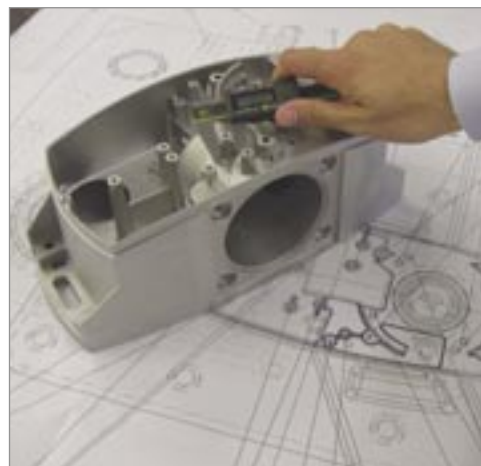
Every KINGgates products, before entering into the market, is subject to intensive testing on the mechanic durability, and it is certified by authorized laboratories for electric safety and electromagnetic compatibility regulations. The use of certified plastic materials and of special synthetic lubricants allow for safe and secure installation both in cold and hot environments, up to -20° C. 24 months guarantee on every product and spare parts always available.

# Made in Italy

## Guaranteed quality

## Research & Development

Every KINGgates product has been internally designed through the “concurrent engineering” philosophy, for which mechanics and electronics are not separately developed, but are merged in order to optimize the performances and the quality of the product. KINGgates has also formed a strong partnership with the university world, through the robotics department of the university of Udine, creating projects that have lead to the patenting of electronic and mechanic innovations.



## Production

The KINGgates products is completely Made in Italy, the production chain avail oneself of reliable suppliers of electronic and mechanic components. The assembly is made on automatic flexible production lines, in order to guarantee fast and precise deliveries.



## Quality control

The quality of KINGgates products is guaranteed by careful controls on the components and on the finished product. All new stock is checked and tested in order to guarantee a continuous reliability of the product. To do so, KINGgates invested strong efforts in order to create an external testing laboratory, where doors and gates are continuously working, everyday, to approve every single mechanical and electronic component.



## Technology

Performance and comfort  
with 24V technology

KINGgates produces automations both with 230 Vac and 24 Vdc motors;  
the low voltage technology is ready to lead the future, to make  
an absolutely-safe installation, with high performances.



### Unbelievable performances

The 24V technology allows the use of the automation also on intensive working cycles, up to 80%.

Thanks to the PWM electronic technology (Power width modulation) it is possible to regulate the speed of the gate, and to obtain a fluid motion with acceleration during start, and slowdown (soft start – soft stop).



### No more black-outs

Thanks to the 24V electronics, it is possible to guarantee the functioning of the automation also in absence of power supply, using the auxiliary batteries. The new Nickel-metal hydride “Bat M016” batteries, that can be inserted inside the 24V KINGgates automations, guarantee better performances even after many hours of black-out, compared to the old lead batteries.



### Total safety

Low voltage means electric safety for the installer and for the user. Apart from that, the obstacle detection technology is more precise and guarantees the stop of the gate and the motion reversal in case of contact extremely rapid, as required by the European regulation.



# Safety

The certified product in compliance with safety standards

## Regulations

The KINGgates automations have been developed to completely accomplish the machines directive and the European regulations on impact tests UNI EN 12445 and UNI EN 12453.

## Mechatronics

Thanks to the integrated design of electronics and mechanics, and the use of 24V technology, KINGgates can offer automations that accomplish the regulation of impact tests.

Modus, the articulated arm operator with patented mechanics, is the best example of the design philosophy used by KINGgates to guarantee safety and reliability.

## Accessories

KINGgates offers a complete line of accessories for safety and for signaling. Photocells and safety edges with autotest, to accomplish the European regulation EN 12978 and radio control in support of safety in every movement, in every case.



## Mechanics

Indestructible, innovative and high performance mechanical transmissions



### Indestructible gears

The helical gears are built with internal envelopment teeth: this particular mechanical construction maximizes the contact surface between the end-screw gear, the tooth embraces the helix as in a traditional straight helix construction the contact surface is a few millimetres. The result of this quality choice are the quieter motors, a high performance and practically no wear and tear.

### Quality materials

Each KINGgates mechanical transmission product is designed for maximum durability, high efficiency and reduced noise. To obtain these results high-quality materials are used, from bronze-resistant to heat treated tempered steel. High quality engineering polymers such as polyacetal resin are used to achieve certain gears, whose strength is guaranteed by the machine tooling that allow you to maintain high thickness (25 mm) that can not be obtained through the most common techniques of injection molding (maximum thickness obtained 5 mm!)

# Patents

## Protecting KINGgates knowhow



### Mechanics

KINGgates designs and tests new mechanical solutions to make their automation unique and reliable, the patenting of mechanical transmission of the KINGgates articulated arm "Modus" is a clear example. Thanks to 4 reduction step down stages , today the gear motor Modus is a highly acclaimed and incomparable solution on the market for its wide applicability and its high performance.

### Electronics

From 2006 to 2010 KINGgates has patented four different technologies for the control and programming of the automation that will dictate the future developments of the KINGgates electronic control units. Particular attention was paid to the 230 Volt/AC motor control obtaining important results in terms of security and control on impact to remain within the parameters of UNI 12445-12453 without the use of safety edges or encoders.

## Design

Functional and design  
for all environments



### Design for the installer

Every KINGgates product has been conceived for an easy and fast installation. To simplify the life of the installer has always been the main target: a good example can be the “Star” control units, in a plastic box with connection instructions and spare fuses, or the sectional door automation, that can be assembled in a few minutes.

### Design for the user

The KINGgates products distinguish themselves for the originality of their shapes and materials. Always new products with great esthetic impact, for an easy and safe use.



# KINGgates electronics

A smart solution



Star electronics are the control units integrated into the Dynamos automation simplifies the job of the installer ensuring high performance in terms of safety, durability and speed. A sole hardware speeds up the commissioning of automation management and maintenance becomes simple and practical. The plastic box, fuses and spare memory card are some examples of functionality and design of this reliable and innovative product. The software technology PWM (Pulse width modulation) in the 24V/DC control units and the Cycle Set Up system in the 230 Volt AC control units ensure maximum safety in case of obstacles and allow to adjust the gate speed in opening and closing.

SOFTWARE 1

SOFTWARE 2

SOFTWARE 4

Open



Dynamos



Jet / Intro



SOFTWARE 3

Modus



## Radio KINGgates®

Design and performance



### Clipper

The first KINGgates transmitter, available with 2 or 4 channels, 433,92 MHz frequency and Rolling code. Rolling code. The oval shape and the double-curved border make the Clipper radio transmitter an ergonomic and full of design object.



### Stylo

Inspired to the automotive world, Stylo is a robust and esthetic product, thanks to its chromed metal frame. Available with 4 channels, 433,92 frequency and Rolling code, it is easily personalized with the accessory "Stylo cover", 4 interchangeable covers in white, green, red, and blue colors. Equipped with the distance learning system, Stylo avoids the installer trips on site to program new transmitters in the receiver.



### Myo

Myo is the 4 channel radio transmitter 433,92 MHz able to copy other transmitters and to generate a fixed code. Available in 2 colors, black and white, Myo is characterized by the originality of the shapes and by the frame made in solid and esthetic metal. Myo can duplicate the fixed code radio transmitters by a fast and easy procedure. Thanks to the 4 buttons, it is possible to perform both the functions of copy and independent programming in case of use with the 2-channel receiver "Fred Myo2".



# NOVO

## Full range of accessories

NOVO is a new line of accessories KINGgates designed to be integrated into any environment and allows an opportunity for installers to propose aesthetic and functional.

The painted protective metal alloy casing makes these products antivandal, robust and secure. The ability to create many variations of accessory changing only the body part of the product makes NOVO original and flexible.

Available in the key switch, receiver, radio, flashlight ,step light, adjustable photocell, wireless radio keypad , wall or desk radio transmitter and transponder proximity reader.



230 Vac and 24 Vdc automations for sliding gates,  
swing gates and barriers.



# KINGgates<sup>®</sup>

Part 1 Gates



# Dynamos

Automation for  
sliding gates up to 1200Kg



## PRECISE AND SILENT MECHANICS

Reliability and safety are at the base of the mechanical components: produced with sturdy materials, they turn on large ball bearings that are attached to die-cast aluminium roller housings. The internal gear has involute teeth. This special construction allows maximum contact between the worm screw and the gear. The tooth wraps around the screw whereas in traditional construction the parts in contact add up to just a few millimetres. The result? Quiet movement, high performance, no wear.

4 Kg of die cast aluminium, ABS plastic parts with anti-UVA ray treatment and pure polyester painting make Dynamos a solid automation that can stand up to any sort of weather.

The sturdy handle in die cast aluminium with personalized key allows manual opening of the gate and disables the electronic apparatus, preventing undesired movement.



Silent mechanics



Key release system



4,5 Kg of aluminum



230 V electronic unit



24 V electronic unit



Back-up battery

## AVAILABLE VERSIONS

Code	Motor	Electronic board	Radio receiver	Fixing kit	Gate max. weight	
Dynamos 500	230 Vac	Star D 1230	●	●	500 Kg	
Dynamos 1000	230 Vac	Star D 1230	●	●	1000 Kg	
Dynamos 24/350	24 Vdc	Star D 124	●	●	350 Kg	
Dynamos 24/600	24 Vdc	Star D 124	●	●	600 Kg	
Dynamos 24/1200	24 Vdc	Star D 124	●	●	1200 Kg	



#### Basic installation:

- 1 Operator Dynamos
- 1 Photocells Viky 11
- 1 Flashing lamp with antenna Idea Plus
- Radio transmitters Stylo

#### Accessories:

- Novo line accessories (p.80)
- Safety edges (p. 88)

### BUILT-IN ELECTRONICS

Star D 1230 and Star D 124 are the control units integrated into the Dynamos automation. They simplify the job of the installer ensuring high performance in terms of safety, durability and speed. A sole hardware speeds up the commissioning of automation management and maintenance becomes simple and practical. The plastic box, spare fuses and the removable memory card are some examples of functionality and design of this reliable and innovative product. The software technology PWM (Pulse width modulation) in the 24 Vdc control units and the Cycle Set Up system in the 230 Vac control units ensure maximum safety in case of obstacles and allow to adjust the gate speed in opening and closing.



TECHNICAL DATA	D 500	D 1000	D 24/350	D 24/600	D 24/1200
Supply (Vac 50Hz)	230	230	230	230	230
Motor (Vac/Vdc)	230	230	24	24	24
Motor power (W)	200	400	40	70	80
Operating temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Overload cut-out (°C)	140	140	-	-	-
Speed (m/min)	10	10	9 ÷ 15	9 ÷ 15	9 ÷ 15
Work cycle (%)	30	30	50	80	80
Dimensions (mm)	325x185x274	325x185x274	325x185x274	325x185x274	325x185x274
Automation weight (Kg)	10	12	9	11	11
Max weight of the gate (Kg)	500	1000	350	600	1200

# Dynamos Kit

Kit solutions  
for sliding gates



## KIT SOLUTION

Vast flexibility for all types of installation thanks to the multiple choice of kits with different range of accessories.



Gear motor  
**Dynamos**



Control unit **Star**  
with radio receiver



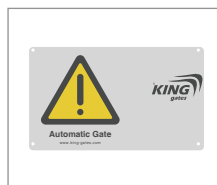
Radio transmitter  
Rolling code - 4 channels  
**Stylo 4**



Flashing light  
with built-in antenna  
**Idea 24 Plus**



Pair of  
photocells  
**Viky 11**



Sign  
board  
**Tab**



Wall mounted flashing  
light with built-in antenna  
**Novo LT 24 Plus**



Adjustable  
photocell  
**NOVO Ph 180**

## KIT - AVAILABLE VERSIONS

Code	Dynamos 500	Dynamos 24/350	Dynamos 24/600	Stylo 4	Idea Plus	Viky 11	Tab	Gate max weight	
Dy Kit 230/500	●			● (2)	●	●	●	500 Kg	
Dy Kit 230/500 LT	●			● (1)		●		500 Kg	
Dy Kit 24/350		●		● (2)	●	●	●	350 Kg	
Dy Kit 24/350 LT		●		● (1)		●		350 Kg	
Dy Kit 24/600			●	● (2)	●	●	●	600 Kg	
Dy Kit 24/600 LT			●	● (1)		●		600 Kg	

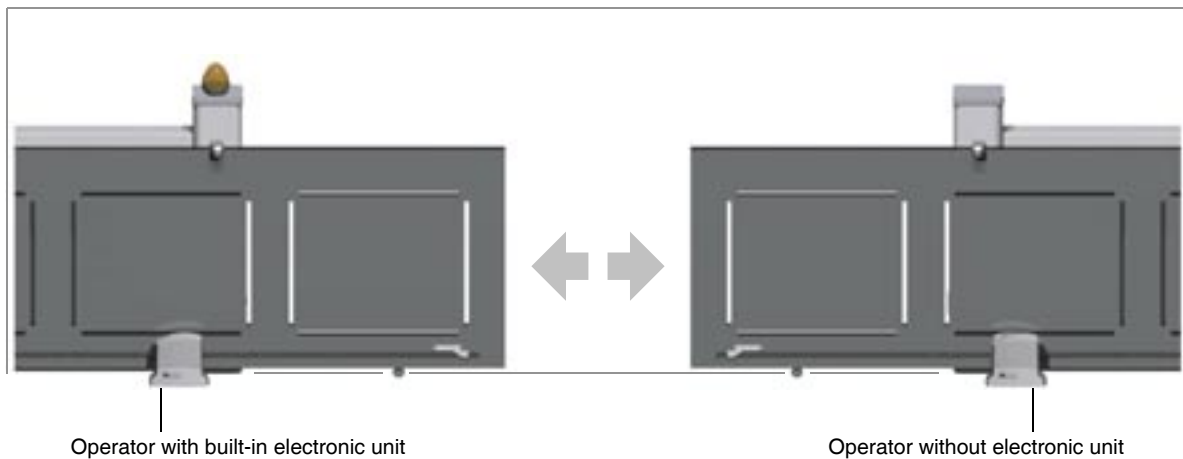
Code	New NOVO Kit	Dynamos 24/350	Dynamos 24/600	Stylo 4	Novo LT 24 Plus	Novo Ph 180	Tab	Gate max weight	
Dy Kit 24/350 NV		●		● (2)	●	●	●	350 Kg	
Dy Kit 24/600 NV			●	● (2)	●	●	●	600 Kg	

## Dynamos.Twin

Dynamos Twin is the kit solution for sliding gate installation with double wings. Two operators, one with control unit for a perfect synchronization of the motors and accessories.









Available in two 230 Vac versions for gate up to 500Kg and 1000 Kg.

# Dynamos.Twin



Code	Dynamos 500 with control unit Star D2230 MS	Dynamos 500 without electronics	Dynamos 1000 with control unit Star D2230 MS	Dynamos 1000 without electronics	Gate max weight	
Dy Twin 500	●	●			500 Kg	
Dy Twin 1000			●	●	1000 Kg	

## ACCESSORIES:

CRIS 100	CRIS 200	CRIS 400	PDY 100	Bat M 016
				
Nylon rack with metal inserts. 28x20x1000	Rack in galvanized steel with screws and spacers. 30x12x1000	Rack in galvanized steel. 22x22x1000	Foundation plate for ground level mounting	Batteries 24V 1,6 Ah for Star D 124
Bat K2	Star D	MEMO MW 200		
				
Battery charge card for Bat M016	Spare part control units p. 62	Master Way memory card for Star D124 produced since January 2011. Technical details p.71		



### DESIGN AND TECHNOLOGY

Designed to enhance any sort of gate, it fits into any setting. The elegant, wrap-around line of the two die cast aluminium shells makes Jet an original example of Italian-made creativity. Thanks to the extractable connector, installation and maintenance are quick and easy. The capacitor is built into the reduction gear and the regulating limit switches allow quick adjustment of travel. The heart of Jet is the mechanical transmission, designed without cutting any corners to ensure the utmost reliability and to allow a range of use that's wider than the standard. All of the components turn on ball bearings which eliminate friction and noise. The use of steel and bronze ensures duration and reliability even in severe conditions. The manual-release handle is made of die cast aluminium with personalized key and ABS lock cover. It is located on the upperpart of the reduction gear to allow immediate, practical use with minimum effort.



Alluminium frame



Mechanical limit switch



Bronze gear and  
ball-bearings



Easy and quick  
cable connector



Optional protective  
brushes



Two color option,  
gray or black

### AVAILABLE VERSIONS

Code	Motor	Mechanical stop	Fixing kit	Protective brushes	Wing max dimensions	
Jet 230 F	230 Vac	● (1)	●	●	3m - 600 Kg	
Jet 230 S	230 Vac	● (1)	●	●	3m - 600 Kg	
Jet 24	24 Vdc	● (1)	●	●	3m - 600 Kg	
Jet 230 F TOP	230 Vac	● (2)	●	●	3m - 600 Kg	
Jet 230 S TOP	230 Vac	● (2)	●	●	3m - 600 Kg	
Jet 24 TOP	24 Vdc	● (2)	●	●	3m - 600 Kg	

To order the black version, include the abbreviation after the code of the motor gear. For example: Jet 230 F BL



#### Basic installation:

- 2 Operators Jet
- 1 Control unit Star Box
- 1 Photocell Viky 11
- 1 Flashing light with antenna Idea Plus
- Radio transmitters Stylo

#### Accessories:

- Novo line accessories (p.80)
- Safety edges (p.88)

## ELECTRONIC CONTROL

Star 2230 and Star 224 are the control units for Jet automation. They simplify the job of the installer ensuring high performance in terms of safety, durability and speed.

A sole hardware speeds up the commissioning of automation management and maintenance becomes simple and practical. The plastic box, spare fuses and the removable memory card are some examples of functionality and design of this reliable and innovative product. The software technology PWM (Pulse width modulation) in the 24 Vdc control units and the Cycle Set Up system in the 230 Vac control units ensure maximum safety in case of obstacles and allow to adjust the gate speed in opening and closing.



TECHNICAL DATA		JET 230 F	JET 230 S	JET 24
Power supply	(Vac 50Hz)	230	230	230
Motor power supply	(Vac/Vdc)	230	230	24
Motor power	(W)	200	170	50
Operating temperature	(°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Run	(mm)	360	360	360
Speed	(m/sec)	0,016	0,01	0,013 ÷ 0,016
Cycle of work	(%)	30	30	90
Dimensions	(mm)	100x820x110	100x820x110	100x820x110
Automation weight	(Kg)	8	8	7
Gate max weight	(m/Kg)	3m / 600Kg	3m / 600Kg	3m / 600Kg

# Jet Kit

## Kit solutions for swing gates



### KIT SOLUTION

Vast flexibility for all types of installation thanks to the multiple choice of kits with different range of accessories.



Motoriduttore  
**Jet**



Electronic control unit  
with radio receiver **Star**



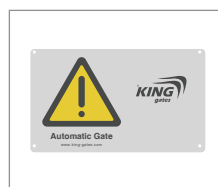
Radio transmitter  
Rolling code - 4 channels  
**Stylo 4**



Flashing light  
with built-in antenna  
**Idea 24 Plus**



Pair of  
photocells  
**Viky 11**



Sign  
board  
**Tab**



Wall mounted flashing  
light with built-in antenna  
**Novo LT 24 Plus**



Adjustable  
photocell  
**NOVO Ph 180**




### KIT - AVAILABLE VERSIONS

Code	Jet 230	Jet 24	Star 2230 Box	Star 224 Box	Stylo 4	Idea Plus	Viky 11	Tab	Wing max dimensions	
Jet Kit 230	● (2)		●		● (2)	●	●	●	3m / 600 Kg	
Jet Kit 230 LT	● (2)		●		● (1)		●		3m / 600 Kg	
Jet Kit 24		● (2)		●	● (2)	●	●	●	3m / 600 Kg	
Jet Kit 24 LT		● (2)		●	● (1)		●		3m / 600 Kg	

Code	New NOVO Kit	Jet 24	Star 224 Box	Stylo 4	Novo LT 24 Plus	Novo Ph 180	Tab	Wing max dimensions	
Jet Kit 24 NV		● (2)	●	● (2)	●	●	●	3m / 600 Kg	



## ACCESSORIES:

STP	STP 02	STA	STL	BK 01
				
Rear screw-on bracket (pcs./package 2)	Rear vertical screw-on bracket (pcs./package 2)	Front screw-on bracket (pcs./package 2)	Rear bracket, length = 220mm (pcs./package 2)	Mechanical limit switch (pcs./package 2)
BK 02 TOP	CJ 230	CJ 24	LOCK HO	LOCK VE
				
Mechanical limit switch for Jet Top (pcs./package 2)	Cabled connector for Jet 230. (Cable lenght = 1,2m)	Cabled connector for Jet 24. (Cable lenght = 1,2m)	Horizontal electro lock 12V	Vertical electro lock 12V
Star	MEMO MW 200			
				
Spare part control units p. 62	Master Way memory card for Star 224 produced since January 2011. Technical details p.71			

# Linear

## Automation for swing gates



### SIMPLE AND RELIABLE

Linear is the electromechanical operator for swinging gates with a maximum dimension of 2.5 metres and 300 Kg. It is mechanically reliable thanks to the telescopic piston transmission and the motor with 140 °C thermal protection. With Linear, installation times are reduced to a minimum. In fact, the operator is supplied with fastening brackets, front and rear, to be screwed on. The 1.5 m pre-wired cable makes the electrical connection easy. Even though maintaining a high quality standard, Linear offers the most inexpensive solution for automating swinging gates. Also available in a kit complete with control and signalling accessories. This manual operation in case of a power failure is simple and intuitive with the release handle to be connected on the top part of the operator. The plastic protection of the release pin guarantees operation even if there is ice.



Easy and protected  
release



Resistant  
mechanics



Screwing  
brackets



Fast  
installation

### VERSIONI DISPONIBILI

CodE	Motor	Right version	Left version	Fixing kit	Wing max dimension	
Linear 300 DX	230 V	●		●	2,5m - 300Kg	
Linear 300 SX	230 V		●	●	2,5m - 300Kg	

### TECHNICAL DATA

### Linear 300

Power supply	(Vac 50Hz)	230
Motor power	(W)	200
Operating temperature	(°C)	-20 ÷ +55
Run	(mm)	400
Cycle of work	(%)	30
Dimensions / Weight	(mm/Kg)	95x760x95 / 5,8
Wing max dimension	(m/Kg)	2,5 m / 300 Kg

### ACCESSORIES:

#### Lock HO

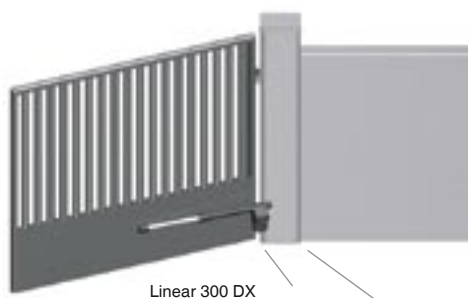
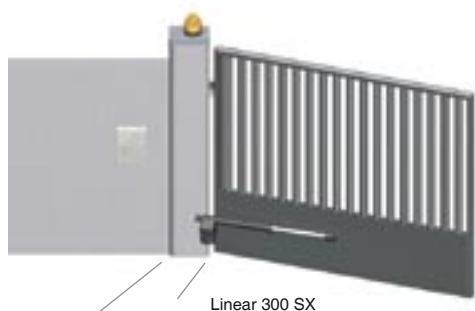
#### Lock VE



Horizontal  
electro lock 12V



Vertical  
electro lock 12V



#### Basic installation:

- 1 Operator Linear dx
- 1 Operator Linear sx
- 1 Control unit Star Box
- 1 Photocell Viky 11
- 1 Flashing light with antenna Idea Plus
- Radio transmitters Stylo

#### Accessories:

- Novo line accessories (p.80)
- Safety edges (p.88)



#### KIT SOLUTION

Vast flexibility for all types of installation thanks to the multiple choice of kits with different range of accessories.



#### ELECTRONIC CONTROL

Control unit with p-lastic cover and cycle set-up system for the control of the run and the continuous update of the parameters.



Gearmotor  
**Linear**



Electronic control unit  
with radio receiver **Star**



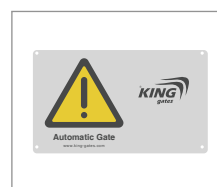
Radio transmitter  
Rolling code - 4 channels  
**Stylo 4**



Flashing light  
with built-in antenna  
**Idea 24 Plus**



Pair of  
photocells  
**Viky 11**



Sign  
board  
**Tab**

#### KIT - AVAILABLE VERSION

Code	Linear 300 DX	Linear 300 SX	Star 2230 Box	Stylo 4	Idea Plus	Viky 11	Tab	Wing max dimension	
Linear Kit 300	●	●	●	● (2)	●	●	●	2,5m / 300 Kg	
Linear Kit 300 LT	●	●	●	● (1)		●		2,5m / 300 Kg	



### PATENTED PERFORMANCES

Thanks to its patented mechanics, Modus can automate big gates with dimensions up to 4,2m and 500 Kg. It has a precise mechanical limit switch regulation that allows a fine adjustment of the wing in opening and closing. Easy and fast to install with its 165mm of width, available in two motor versions with two standard arms and two optional arms with sliding and rotating features for every type of installation. 4 kilograms of aluminum, 4-stage gear box entirely in stainless and high-quality synthetic lubricant make Modus a indestructible automation and can be used at any temperature. The 24V motor allows intensive use installations.



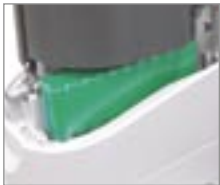
Precise regulation of mechanical stops



Patented mechanism



Protected electronics



Optional back-up battery

TECHNICAL DATA		Modus 280	Modus 420
Power supply	(Vac 50Hz)	230	230
Motor power supply	(Vac/Vdc)	24	24
Motor power	(W)	30	45
Absorption	(A)	1,25	1,87
Operating temperature	(°C)	-20 ÷ +55	-20 ÷ +55
Speed	(Rpm)	0,9 ÷ 1,5	0,9 ÷ 1,5
Cycle of work	(%)	50	50
Dimensions	(mm)	165x250x306	165x250x306
Automation weight	(Kg)	7,5	7,5
Wing max dimensions	(m/Kg)	2,8m / 300Kg	4,2m / 500Kg



#### Basic installation:

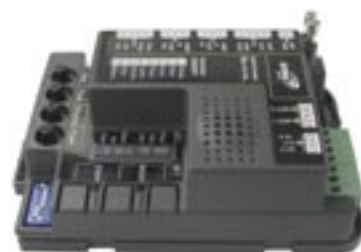
- 1 Operator Modus MA
- 1 Operator Modus SL
- 1 Control unit Star Box
- 1 Photocell Viky 11
- 1 Flashing light with antenna Idea Plus
- Radio transmitters Stylo

#### Accessories:

- Novo line accessories (p.80)
- Safety edges (p.88)

## ELECTRONIC CONTROL

Star M224 is the control units of Modus. It simplifies the life of the installer, guaranteeing extremely high performances in terms of safety, durability and speed. The complete software speeds up the installation of the automation and the maintenance becomes simple and practical. The spare fuses and the removable memory card are some examples of the functionality and design of a reliable and innovative product. The software technology PWM (Pulse width modulation) ensure the safety in case of obstacle and allow the adjustment of the opening and closing speed of the gate.

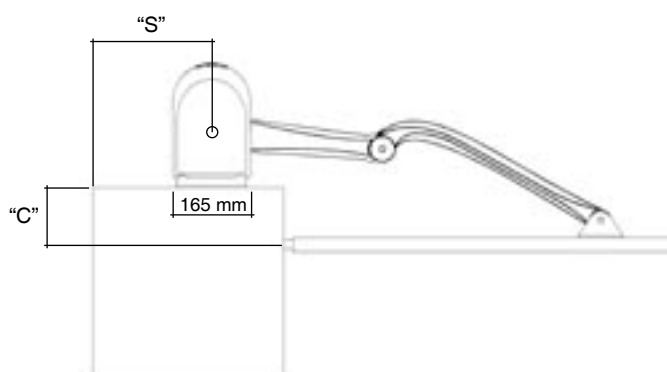
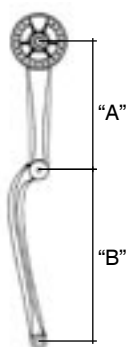


## AVAILABLE VERSIONS

Code	Motor	Electronic unit	Radio receiver	Mechanical stop	Fixing kit	Wing max dimensions	
Modus 280 SL	24 Vdc	Star M 224	●	● (1)	●	2,8m - 300 Kg	
Modus 280 MA	24 Vdc	Star M 224	●	● (1)	●	2,8m - 300 Kg	
Modus 420 SL	24 Vdc	Star M 224	●	● (1)	●	4,2m - 500 Kg	
Modus 420 MA	24 Vdc	Star M 224	●	● (1)	●	4,2m - 500 Kg	

## CONNECTION ARMS

Code	"A"	"B"	Max "C"	Minimum space "S"	Wing max dimensions	
Mo Link 180	360 mm	300 mm	200 mm	200 mm	1,8 m	
Mo Link 420	360 mm	487 mm	350 mm	320 mm	4,2 m	



# Modus Kit

## Kit solutions for swing gates



### KIT SOLUTION

Vast flexibility for all types of installation thanks to the multiple choice of kits with different range of accessories.



Motorgear  
**Modus MA**



Motorgear  
**Modus SL**



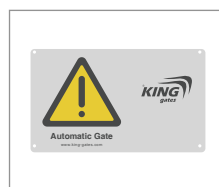
Radio transmitter  
Rolling code - 4 channels  
**Stylo 4**



Flashing light  
with built-in antenna  
**Idea 24 Plus**



Pair of  
photocells  
**Viky 11**



Sign  
board  
**Tab**



Wall mounted flashing  
light with built-in antenna  
**Novo LT 24 Plus**



Adjustable  
photocell  
**NOVO Ph 180**

### KIT - AVAILABLE VERSIONS

Code	Modus 280 MA	Modus 280 SL	Mo Link 420	Stylo 4	Idea 24 Plus	Viky 11	Tab	Wing max dimensions	
Modus Kit 280	●	●	● (2)	● (2)	●	●	●	2,8m / 300 Kg	
Modus Kit 280 LT	●	●	● (2)	● (1)		●		2,8m / 300 Kg	

Code	New NOVO Kit	Modus 280 MA	Modus 280 SL	Mo Link 420	Stylo 4	Novo LT 24 Plus	Novo Ph 180	Tab	Wing max dimensions	
Modus Kit 280 NV		●	●	● (2)	● (2)	●	●	●	2,8m / 300 Kg	

## ACCESSORIES

### MO L C18 SX



Sliding arm for wing up tp  
1,8 m - 300Kg.  
Left version.

### MO L C18 DX



Sliding arm for wing up tp  
1,8 m - 300Kg.  
Right version.

### MO Link R42



Rotative arm (Inclination+/- 8°)  
Wing max dimensions 4,2m - 500 Kg

### BK 40



Mechanical limit switch  
(2 pieces)

### Sblo 800



External release

### Bat M016



Batteries 24V 1,6Ah

### Bat K2



Battery charge card  
for Bat M016

### Lock HO



Horizontal  
electro lock 12V

### Lock VE



Vertical  
electro lock 12V

### Star M224 Box



Electronic control unit  
with plastic box, transformer  
and radio receiver for one  
or two Modus SL

### Star



Spare part  
control units p. 62

### MEMO MW 200



Master Way memory card  
for Star 224 produced since  
January 2011.  
Technical details p.71



### STRONG AUTOMATION

Ark is the articulated arm automation with a 230 Vac motor. The gearbox totally in steel and metal arms are synonymous with reliability and robustness. Easy to install with screw-on brackets, equipped with electric limit switches and the allen key release system secured with the cylindrical barrel removable key.



Electric limit switches



Precise connection



Standard fixing bracket



Mounting bracket for small spaces

### AVAILABLE VERSIONS

CodE	Motor	Fixing kit	Connection arm	Wing max dimensions	
Ark 230	24 V	●	●	3,5m - 400Kg	

### ACCESSORIES:

#### STark 200



Mounting bracket for small size columns. Left version

#### STark 300



Mounting bracket for small size columns. Right version

#### BRark400



Increased size arm for a distance between the axis of the gate and the end of the column up to 45 cm

#### Lock HO



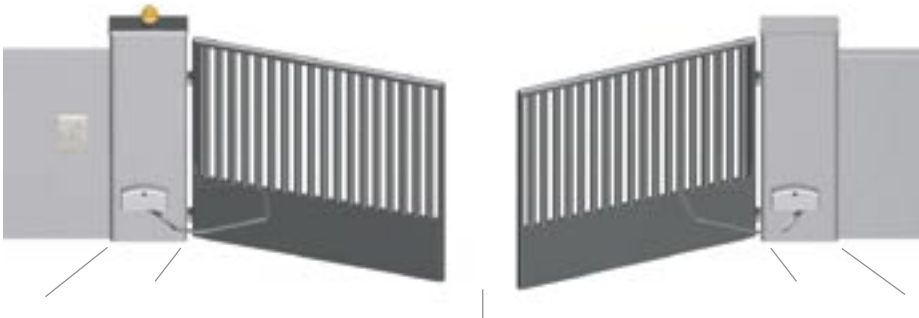
Horizontal electro lock 12V

#### Lock VE



Vertical electro lock 12V





#### Basic installation:

- 2 Operators Ark 230
- 1 Control unit Star Box
- 1 Photocell Viky 11
- 1 Flashing light with antenna Idea Plus
- Radio transmitters Stylo

#### Accessories:

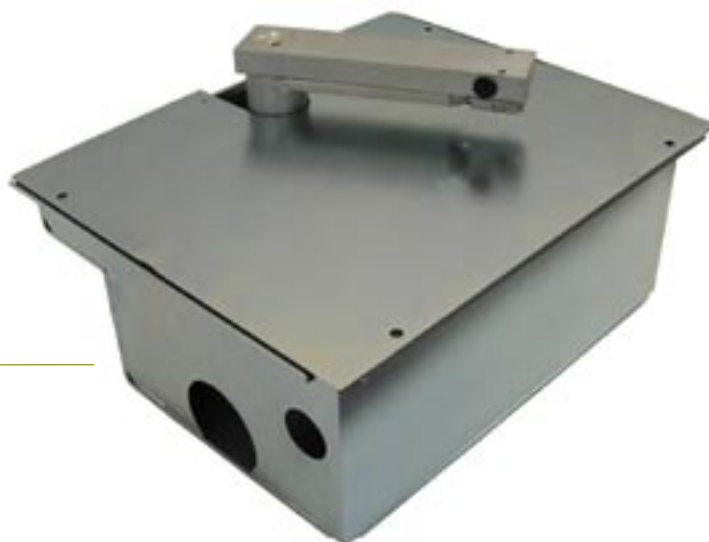
- Novo line accessories (p.80)
- Safety edges (p.88)

## ELECTRONIC CONTROL

Star 2230 is the control unit for Ark automation. It simplifies the job of the installer ensuring high performance in terms of safety, durability and speed. The plastic box, spare fuses and the removable memory card are some examples of functionality and design of this reliable and innovative product. The software technology Cycle Set Up system ensures maximum safety in case of obstacles and allow to adjust the gate speed in opening and closing.



TECHNICAL DATA		Ark 230
Power supply	(Vac 50Hz)	230
Motor power supply	(Vac/Vdc)	230
Motor power	(W)	250
Consumption	(A)	1,2
Operating temperature	(°C)	-20 ÷ +55
Speed	(m/min)	1,7
Working cycle	(%)	30
Dimensions	(mm)	330x170x150
Automation weight	(Kg)	11
Wing max dimensions	(m/Kg)	3,5 m / 400 Kg



Underground  
installation



Easy and robust  
release

### INVISIBLE COMFORT

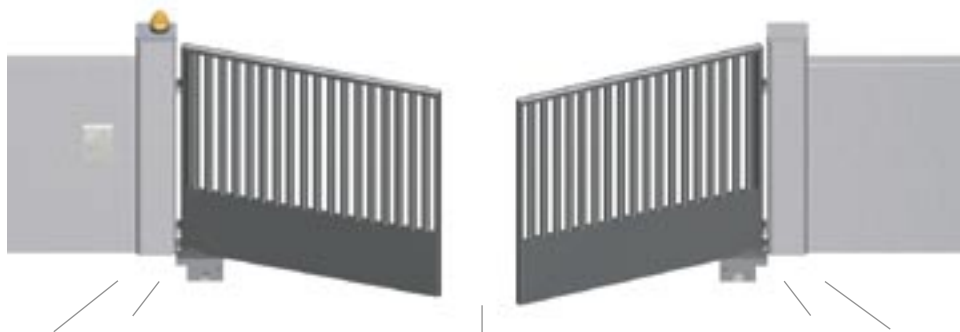
The recessed installation makes automation completely invisible so that the appearance of the gate is not modified. The solid die cast aluminium, the use of bronze and fine metals, and the IP67 degree of watertight seal ensure reliable operation and very little maintenance. The Star control units make Intro a safe, precise automation. If there is no electricity, the gate can be opened immediately thanks to the provided release lever, which can be easily inserted and turned with the slightest effort even if there is ice.

### AVAILABLE VERSIONS

Code	Motore	Connecting cable 2,5 m long	Connecting cable 9 m long	Wing max dimensions	
Intro 230	230 Vac	●		2,5m - 400 Kg	
SuperIntro 230	230 Vac	●	●	2,5m - 400 Kg	
Intro 24	24 Vdc	●		2,5m - 400 Kg	

### UNDERGROUND BOX

Code	Zinc coated steel frame	Stainless steel frame	
Introbox	●		
Introbox S		●	



#### Basic installation:

- 2 Operators Intro
- 2 Foundation box
- 1 Control unit Star Box
- 1 Photocell Viky 11
- 1 Flashing light with antenna Idea Plus
- Radio transmitters Stylo

#### Accessories:

- Novo line accessories (p.80)
- Safety edges (p.88)

## ELECTRONIC CONTROL

Star 2230 and Star 224 are the control units for Jet automation. They simplify the job of the installer ensuring high performance in terms of safety, durability and speed.

A sole hardware speeds up the commissioning of automation management and maintenance becomes simple and practical. The plastic box, spare fuses and the removable memory card are some examples of functionality and design of this reliable and innovative product. The software technology PWM (Pulse width modulation) in the 24 Vdc control units and the Cycle Set Up system in the 230 Vac control units ensure maximum safety in case of obstacles and allow to adjust the gate speed in opening and closing.



TECHNICAL DATA		Intro 230	Intro 24
Power supply	(Vac 50Hz)	230	230
Motor power supply	(Vac/Vdc)	230	24
Motor power	(W)	200	50
Operating temperature	(°C)	-20 ÷ +55	-20 ÷ +55
Level of protection	(IP)	IP67	IP67
Absorption	(A)	1,3	2,5
Cycle of work	(%)	40	60
Dimensions	(mm)	340x170x410	340x170x410
Automation weight	(Kg)	10	10
Gate max weight	(m/Kg)	2,5m / 400Kg	2,5m / 400Kg

# Intro Kit

## Kit solutions for swing gates

### KIT SOLUTION

Vast flexibility for all types of installation thanks to the multiple choice of kits with different range of accessories.



Gear motor  
**Intro**



Underground box  
**Introbox**



Control unit **Star**  
with radio receiver



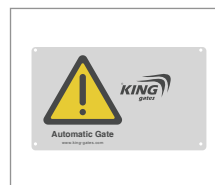
Radio transmitter  
Rolling code - 4 channels  
**Stylo 4**



Flashing light  
with built-in antenna  
**Idea 24 Plus**



Pair of  
photocells  
**Viky 11**










Sign  
board  
**Tab**

### KIT - AVAILABLE VERSIONS

Code	Superintro 230	Intro 24	Introbox	Star 2230 Box	Star 224 Box	Stylo 4	Idea Plus	Viky 11	Tab	Wing max dimensions	
Intro Kit 230	●		● (2)	●		● (2)	●	●	●	2,5m / 400 Kg	
Intro Kit 230 LT	●		● (2)	●		● (1)		●		2,5m / 400 Kg	
Intro Kit 24		● (2)	● (2)		●	● (2)	●	●	●	2,5m / 400 Kg	
Intro Kit 24 LT		● (2)	● (2)		●	● (1)		●		2,5m / 400 Kg	

## ACCESSORIES:

BK 10	BK 20	In 180	Lock HO	Lock VE
				
Mechanical limit switches for opening (2 pieces)	Mechanical limit switches for closing (2 pieces)	Kit for leaf opening at 180° for Intro 230	Horizontal electro lock 12V	Vertical electro lock 12V
Star	MEMO MW 200			
				
Spare part control units p. 62	Master Way memory card for Star 224 produced since January 2011. Technical details p.71			

# Open

## Barrier automation



### HIGH PERFORMANCE

The Open automatic barrier is an automation with 24V motor designed for intensive use. The power of the reduction gear and the stability of the structure ensure perfect management of high-intensity passages. Changing the opening direction of the arm is quick and easy by just moving the spring attachment point. The rod is balanced through the adjustable spring while the reduction gear with permanent lubrication is equipped with electric opening and closing limit switches. Manual opening occurs through the personalized lock located outside the structure.



Reliable motor gear



Key manual release



Protected electronics

### GEAR MOTOR

Code	Motor	Control unit	Radio receiver	Encoder	
Open 424	24 V	Star Op 124	●	●	

### BAR

Code	Lenght	Rubber edge	
As 3B	3m	●	
As 4B	4m	●	



As 3-4 B



#### Basic installation:

- 1 Operator Open
- 1 Bar AS
- 1 Control unit Star Box
- 1 Photocell Viky 11
- 1 Flashing light with antenna Idea Plus
- Radio transmitters Stylo

#### Accessories:

- Novo line accessories (p.80)
- Safety edges (p.88)

## ELECTRONIC CONTROL

Star Op 124 is the control units of Open. It simplifies the life of the installer, guaranteeing extremely high performances in terms of safety, durability and speed. The complete software speeds up the installation of the automation and the maintenance becomes simple and practical. The spare fuses and the removable memory card are some examples of the functionality and design of a reliable and innovative product. The software technology PWM (Pulse width modulation) ensure the safety in case of obstacle and allow the adjustment of the opening and closing speed of the bar.



TECHNICAL DATA		424
Power supply	(Vac 50Hz)	230
Motor power supply	(Vac/Vdc)	24
Motor power	(W)	120
Absorption	(A)	5
Operating temperature	(°C)	-20 ÷ +55
Speed	(sec)	3 ÷ 7
Cycle of work	(%)	80
Dimensions	(mm)	296x196x1150
Automation weight	(Kg)	34

## ACCESSORIES

BAO 200	APA 200	APF 200	Bat M 016	Bat M 016
				
Fixing plate	Movable support	Adjustable fixed support	Batteries 24V 1,6 Ah	Battery charge card for Bat M016

ADS 424	Star	MEMO MW 200
		
Stickers - 20 pieces	Spare part control units p. 62	Master Way memory card for Star 224 produced since January 2011. Technical details p.71

230 Vac and 24 Vdc automations for  
sectional doors, overhead doors and rolling shutters



# KINGgates<sup>®</sup>

Part 2

## Doors





### TOP OF THE RANGE

The rotating opening of the central cover makes easy the access to the control board. The electronic unit has a plastic cover with simple buttons. It allows an easy and intuitive use. The location of the buffer batteries is in the backside of the base. It's strong and invisible. The transmission with belt is silent and reliable, while the 18 teeth gear prevent any slipping of the belt.

The pre-assembled 3 or 4 meters long guides optimize the installation time. The encoder control system minimize the phase of set-up. The buffer batteries allow the functioning even during a black-out.

### INNOVATIVE MANUAL RELEASE SYSTEM

The innovative manual release system has been developed for working both with the cord linked to the carriage and with the door-handle. The manual activation by cord, without the installation of the door-handle system, allows the possibility of holding the automation in released condition. It allows to close and open the door without the automatic re-hook of the carriage. With this system, during a black-out, the user can choose to close the door and then open it without any release operation or to close the door and holding it re-hooked till the next release operation from inside.



Mechanics with ball bearings



Precise electronics



Fast assembling



Belt with 6 steel cables



Steel rail.  
Thickness 1,3 mm



Innovative release system



#### Basic installation:

- 1 Operator Rolls
- 1 Rail GRB
- 1 Photocell Viky 11
- 1 Flashing light with antenna Idea Plus
- Radio transmitters Stylo

#### Accessories:

- Novo line accessories (p.80)
- Safety edges (p.88)

### GEAR MOTORS

Code	Motor	Control unit	Radio receiver	Batteries	Encoder	Newton max	
Rolls 700	24 Vdc	Star GDO 100	●		●	700	
Rolls 700 Plus	24 Vdc	Star GDO 100	●	●	●	700	
Rolls 1200	24 Vdc	Star GDO 100	●		●	1200	

### RAILS

Code	Kind of transmission	Slide lenght	Door max height	Kind of slide	
Grb 3	Belt	3 m	2,45 m	1 x 3 m	
Grb 23		3 m	2,45 m	2 x 1,5 m	
Grb4		4 m	3,45 m	3 m + 1 m	

#### RAIL GRB

The "GRB" slides are made with 6 iron cables belt, with a maximum power equal to 1200 N and a nylon textile covering for an extra silent working.

TECHNICAL DATA		700	1200
Power supply	(Vac 50Hz)	230	230
Motor	(Vdc)	24	24
Motor power	(W)	40	80
Absorption	(A)	0,8	1,2
Operating temperature	(°C)	-20 ÷ +55	-20 ÷ +55
Speed	(cm/s)	9 ÷ 16	9 ÷ 16
Working cycle	(%)	60	60
Operator dimensions	(mm)	414x264x110	414x264x110
Max dimensions sectional door	(m <sup>2</sup> )	10	17
Max dimensions overhead door	(m <sup>2</sup> )	10	14

# Rolls Kit

## Kit solutions for garage doors



### KIT SOLUTION

Vast flexibility for all types of installation thanks to the multiple choice of kits with different range of accessories.



Gear motor with control unit  
and radio receiver

**Rolls**



Assembled rail  
**GRB 3**



Radio transmitter  
Rolling code - 4 channels  
**Stylo 4**



Wall mounted flashing  
light with built-in antenna  
**Novo LT 24 Plus**



Adjustable  
photocell  
**NOVO Ph 180**



Wall or table radio  
transmitter - 4 channels  
**NOVO TX4**

### KIT - AVAILABLE VERSIONS

Code	Rolls 700	Rolls 1200	Guida GRB 3	Stylo 4	Novo LT 24 Plus	Novo Ph 180	Novo TX4	Newton max	
Rolls Kit 700	●			●				700	
Rolls Kit 700-R3	●		●	●				700	
Rolls Kit 700 NV	●			● (2)	●	●	●	700	
Rolls Kit 1200 NV		●		● (2)	●	●	●	1200	

## ACCESSORIES:

ARC 01	LONG 01	SRO 01	SRO 02	SPI 01
				
Swinging arm for handle lock	Side element for fixing swinging arm ARC 01 to door	Additional fastening brackets kit	Extension bracket for the pulling arc	Plug Cable length 70cm
SBLO 01	SBLO 500	BAT 12K	STAR GDO 100	
				
External unlocking system to be applied on handle lock	External unlocking system to be applied with an hole in the door	Batteries kit 24V (2 x 12V - 1,2Ah) with battery charge card	Spare control unit p.62	



### DESIGN

Book is an innovative operator that completes the KINGgates automation range of sectional doors. Available in the 550N and 1000N versions – belt drive transmission with 6 core steel cables. The 550 LED and 1000 LED versions with courtesy light by integrated LEDs for improved lighting in the garage, the lateral position of the light gives BOOK a innovative and original design. The possibility to rotate ( $0^{\circ} + 90^{\circ}$ ) the motor head allows to reduce space so it to be installed in tight garages. Book is an example of creativity Made in Italy and Made in KINGgates.

### ENCODER AND BELT TRANSMISSION

The belt drive is reliable and silent while the 18-tooth pinion can avoid any possibility of "slipping". Preassembled guides 3 or 4 meters optimize installation time, while the encoder control minimizes programming and allows a fast response to obstacles detection as required by regulating normative. The innovative release system is designed to be operated by both the cord connected to the carriage drive, and the handle on the door. The manual operation via the cord needs no installation on the handle, makes it possible to maintain the automation released allowing the opening and closing of the door without the automatically latching the carriage.



Mechanics with  
ball bearings



Control unit  
GD 20



Control unit  
GD 20 LED



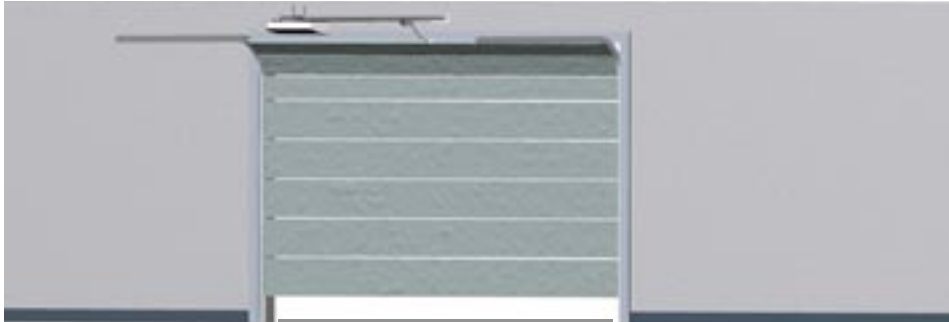
Lamp or LEDs  
built in light



Steel rail.  
Thickness 1,3 mm



Innovative  
release system


**Basic installation:**

- 1 Operator Rolls
- 1 Rail GRB/GLB
- 1 Photocell Viky 11
- 1 Flashing light with antenna Idea Plus
- Radio transmitters Stylo

**Accessories:**

- Novo line accessories (p.80)
- Safety edges (p.88)

### GEAR MOTORS

Code	Motor	Control unit	Radio receiver	LEDs light	Encoder	Newton max	
Book 550	24 Vdc	Star GD 20	●		●	550	
Book 550 Led	24 Vdc	Star GD 20 Led	●	●	●	550	
Book 1000 Led	24 Vdc	Star GD 20 Led	●	●	●	1000	

### RAILS

Code	Kind of transmission	Slide lenght	Door max height	Kind of slide	
Grb 3	Belt	3 m	2,45 m	1 x 3 m	
Grb 23		3 m	2,45 m	2 x 1,5 m	
Grb 4		4 m	3,45 m	3 m + 1 m	

**RAIL GRB**

The "GRB 3" slides are made with 6 iron cables belt, with a maximum power equal to 1200 N and a nylon textile covering for an extra silent working.

TECHNICAL DATA		550	1000
Power supply	(Vac 50Hz)	230	230
Motor	(Vdc)	24	24
Motor power	(W)	30	60
Absorption	(A)	0,7	1,1
Operating temperature	(°C)	-20 ÷ +55	-20 ÷ +55
Speed	(cm/s)	9 ÷ 16	9 ÷ 16
Working cycle	(%)	40	60
Operator dimensions	(mm)	380x246x96	380x246x96
Max dimensions sectional door	(m <sup>2</sup> )	8	12

# Book Kit

## Kit solutions for sectional doors



### KIT SOLUTION

Vast flexibility for all types of installation thanks to the multiple choice of kits with different range of accessories.



Gear motor with control unit  
and radio receiver  
**Rolls**



Assembled rail  
**GRB 3**



Radio transmitter  
Rolling code - 4 channels  
**Stylo 4**



Wall mounted flashing  
light with built-in antenna  
**Novo LT 24 Plus**



Adjustable  
photocell  
**NOVO Ph 180**



Wall or table radio  
transmitter - 4 channels  
**NOVO TX4**

### KIT - AVAILABLE VERSIONS

Code	Book 550	Guida GLB 3	Stylo 4	Novo LT 24 Plus	Novo Ph 180	Novo TX4	Newton max	
Book Kit 550	●		●				550	
Book Kit 550-RL3	●	●	●				550	
Book Kit 550 NV	●		● (2)	●	●	●	550	

### RAIL GLB

The "GLB" slide is made with 6 iron cables belt, with a maximum power equal to 1000 N. Available only with "Book Kit 550-RL3".



## ACCESSORIES:

SBLO 01	SBLO 500	SRO 01	SRO 02	SPI 01
				
External unlocking system to be applied on handle lock	External unlocking system to be applied with an hole in the door	Additional fastening brackets kit	Extension bracket for the pulling arc	Plug Cable length 70cm

## STAR BOOK



Spare control unit p.62



CONTROLLED POWER

The resistant materials and the mechanic transmission ensure high performance also with big size doors. Mek has been designed to move door until 8 sqm or until 14 sqm by installing 2 gear motors. The design explains the power of the motor-gear. The lamp is very comfortable for lighting up the room while the release lever allow a quick manual opening.



Built-in  
light



Built-in  
electronics



Intuitive release  
system



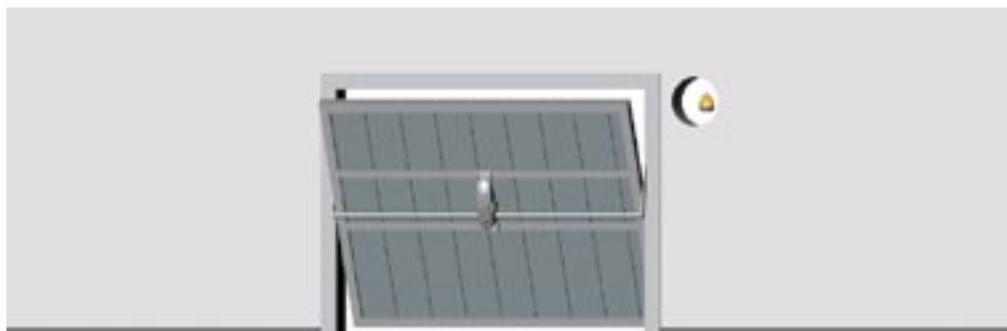
Electrical  
limit switches



Precise  
connection

AVAILABLE VERSIONS

Code	Motor	Electronic control unit	Radio receiver	
Mek 230	230	●	●	
Mek 230 SE	230			



#### Basic installation:

- 1 Operator Mek
- 1 Fixing kit Mcar
- 1 Photocells Viky 11
- 1 Flashing lamp with antenna Idea Plus
- Radio transmitters Stylo

#### Accessories:

- Novo line accessories (p.80)
- Safety edges (p. 88)

## ELECTRONIC CONTROL

Star 2230 is the control unit for Ark automation. It simplifies the job of the installer ensuring high performance in terms of safety, durability and speed. The plastic box, spare fuses and the removable memory card are some examples of functionality and design of this reliable and innovative product. The software technology Cycle Set Up system ensures maximum safety in case of obstacles and allow to adjust the gate speed in opening and closing.



TECHNICAL DATA		Mek 230
Supply	(Vac 50Hz)	230
Motor	(Vdc)	230
Motor power	(W)	220
Absorption	(A)	1
Operating temperature	(°C)	-20 ÷ +55
Speed	(rpm)	1,3
Work cycle	(%)	30
Dimensions	(mm)	620x180x115
Max dim. overhead door	(m <sup>2</sup> )	8
Max dim. overhead door with 2 motor	(m <sup>2</sup> )	14

# Mek Kit

## Kit solutions for overhead doors



### KIT SOLUTION

Vast flexibility for all types of installation thanks to the multiple choice of kits with different range of accessories.



Transmission bracket kit  
**MCAR 100**



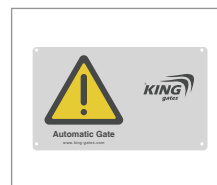
Radio transmitter  
Rolling code - 4 channels  
**Stylo 4**



Flashing light  
with built-in antenna  
**Idea 24 Plus**



Pair of  
photocells  
**Viky 11**



Sign  
board  
**Tab**













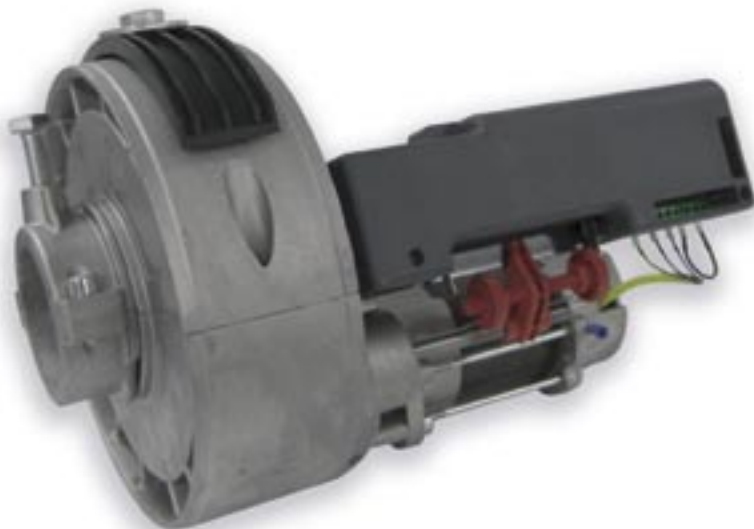
Gear motor with control  
unit and radio receiver  
**Mek 230**

### KIT - AVAILABLE VERSIONS

Code	Mek 230	MCAR 100	Viky 11	Stylo	Idea Plus	Super 100	Tab	
Mekit 230	●		●	● (2)	●	●	●	
Mekit 230 EV	●	●	●	● (2)	●	●	●	
Mekit 230 LTE	●	●		●				

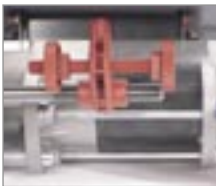
## ACCESSORIES:

MCAR 100	MCAR 200	MBU 10	MB 100	MB 200
<b>MB 100 + MA 1500 + MSA</b>	<b>MB 200 + MA 1500 + MSA</b>			
Kit bracket with 2 X 1500mm long connecting-shafts complete with supports + 2 straight telescopic arms	Kit bracket with 2 X 1500mm long connecting-shafts complete with supports + 2 curved telescopic arms	Bush	Pair of straight telescopic arms with accessories	Pair of curved telescopic arms with accessories
MA L	MA 1500	MA 2000	MSA	SBLO 10
				
Pair of connecting-shafts with bush and lateral installation accessories	Pair of connecting-shafts L=1500mm	Pair of connecting-shafts L=1500mm	Support for connecting-shaft	External release system
SBLO 11	STAR M 1230			
				
External release system with key	Spare part control units p. 62			



### FAST INSTALLATION

Ring is the reduction gear for roll-up shutters that's reliable and easy to install. Designed to be installed directly on the axle, on pre-existing or newly-placed shutters..The irreversible movement is ensured by means of an electro-brake. If there is a power outage, the handle release allows perfect reversibility and easy manual operation. The control unit Star B allow the control fo 1 or 2 motorgears Ring 150. The Star B plus version has a built-in radio receiver 433,92 MHz, connectors for photocells and flashing lamp Idea 230 CL.



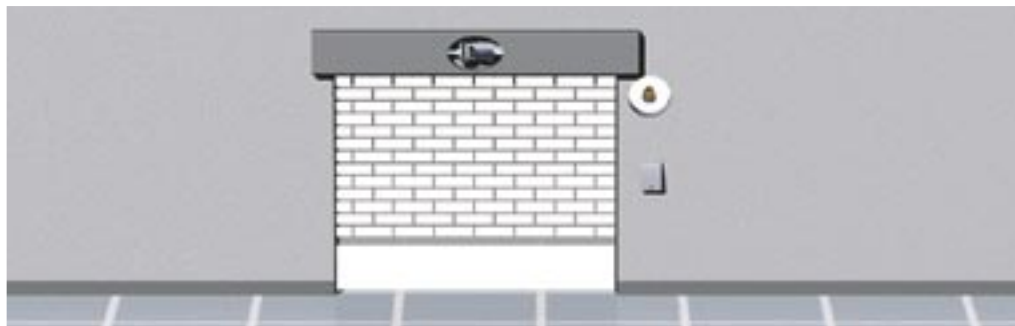
Electric  
limit switches



Fast  
assembling

### AVAILABLE VERSIONS

Code	Motor	Ø Shaft	Crown	Reduction	Electro-brake	Max lift	
Ring 150	230 V	60mm	200mm	60/48		150Kg	
Ring 150 Plus	230 V	60mm	200mm	60/48	●	150Kg	



#### Basic installation:

- 1 Operator Ring
- 1 Control unit Star B Plus
- 1 Photoeye Viky 11
- 1 Flashing light Idea CL Plus
- Radio transmitters Stylo

#### Accessories:

- Novo line accessories (p.80)
- Safety edges (p.88)

## ELECTRONICS - ACCESSORIES:

### STAR B PLUS



Control unit for Ring automation with built-in receiver, photocell input and adjustment of standby and working times.

### EF 100



Electro brake kit complete with cable and release knob

### Blindo 33



Box in aluminum with release lever for electro brake. Key access.

### RI 6042



Axis reduction Ø 60/42

TECHNICAL DATA		Ring 150
Supply	(Vac 50Hz)	230
Motor	(Vdc)	230
Motor power	(W)	160
Absorption	(A)	2,5
Operating temperature	(°C)	-20 ÷ +55
Speed	(m/min)	6
working cycle	(%)	40
Dimensions	(mm)	250x250x215

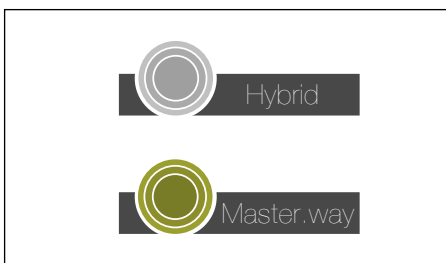
Electronic control unit for  
230Vac and 24Vdc motors.



KINGgates<sup>®</sup>  
Part 3 Electronics



KINGgates® produces a full range of electronics for automation control both 230Vac and 24Vdc. The control units are designed to guarantee the maximum performance of the KINGgates® operators, where they can find universal application thanks to the complete functionality and the dimensions of the components.



### Unique electronics

The KINGgates automation are characterized by its unique electronics, similar in functions, in the connections and system adjustments. This similarity allows for easy and positive approach of installers to KINGgates automation systems for wiring and programming, also any maintenance can be carried out easy and fast.

### A flexible choice

With Master.Way and the Hybrid brands KINGgates offers a wide flexible selection regarding the use of radio systems, management and maintenance of installations.

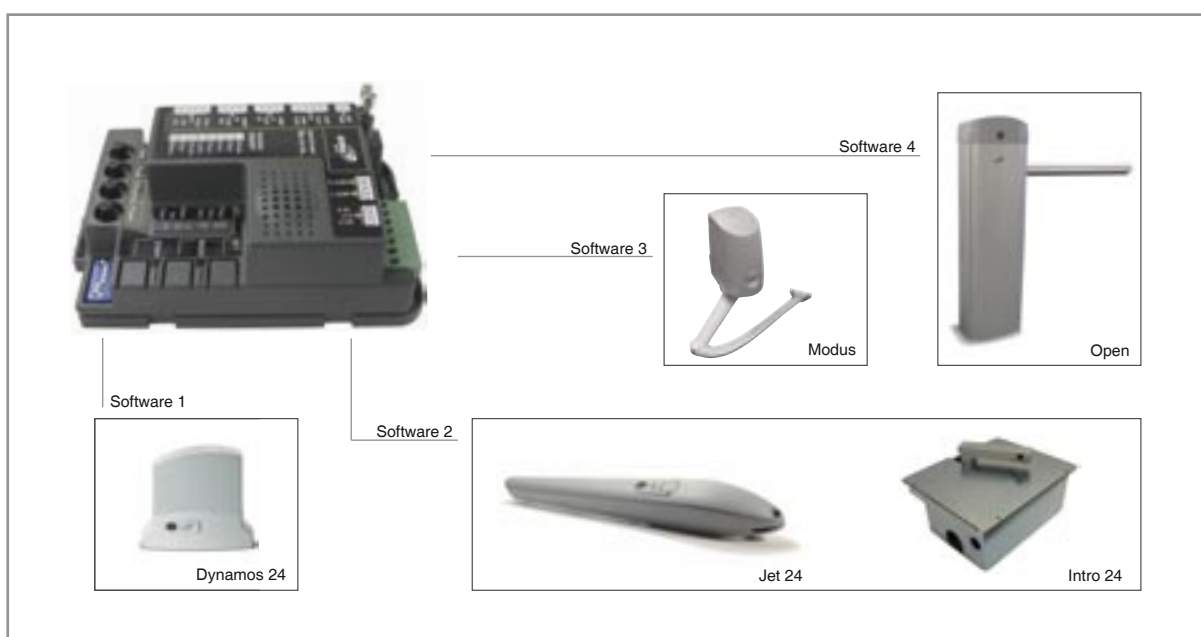
(Further explanation on page. 70-71).

### KINGgates production

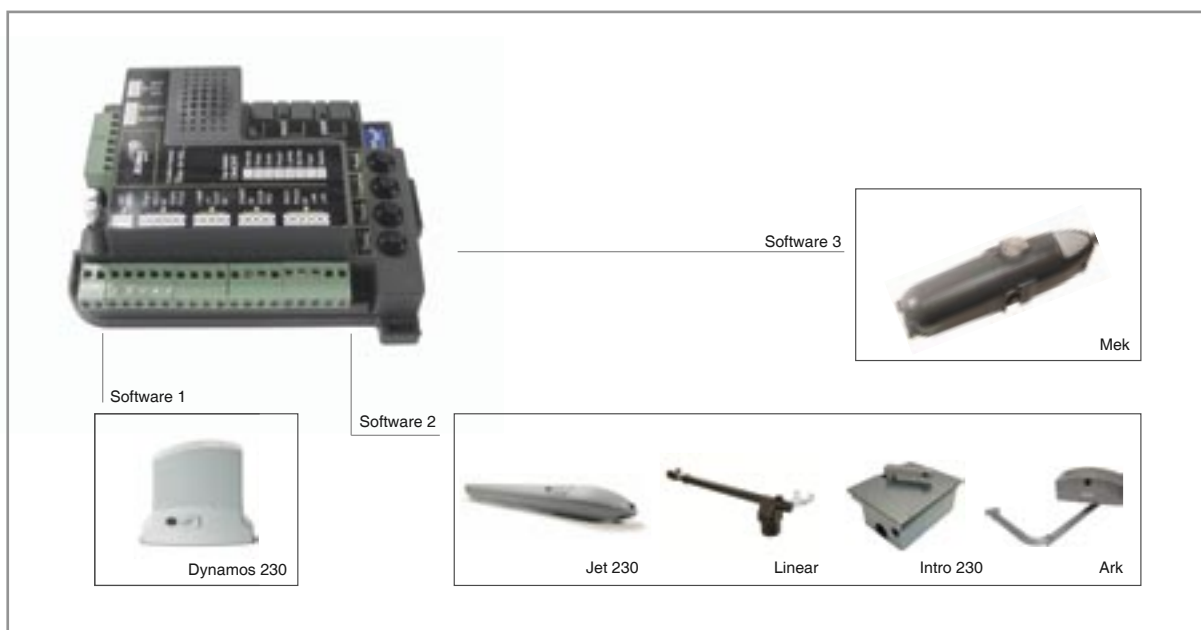
The begin of 2010 represents for KINGgates an important step in the completion of its industrial expansion plan. From this moment KINGgates has direct management of all production phase of the electronics that is signed with the new born brand KGeletronics, indicated on the PCB circuit boards, now totally "made in KINGgates".

Two control units for all automations. Practical and simple settings using trimmers , travel limits programmed automatically with just one button, LED diagnostic and dip-switches to set mode operation. Plastic covering protection with instructive wiring labels and replacement fuses. Slowing down , speed control and obstacle detection control in all versions.

24  
Vdc



230  
Vac





Hybrid








Master.way

24V control units (produced since January 2011) can be used with Hybrid or Master.Way modality. Look p.70





### CONTROL UNITS FOR 1 OR 2 24 Vdc MOTORS

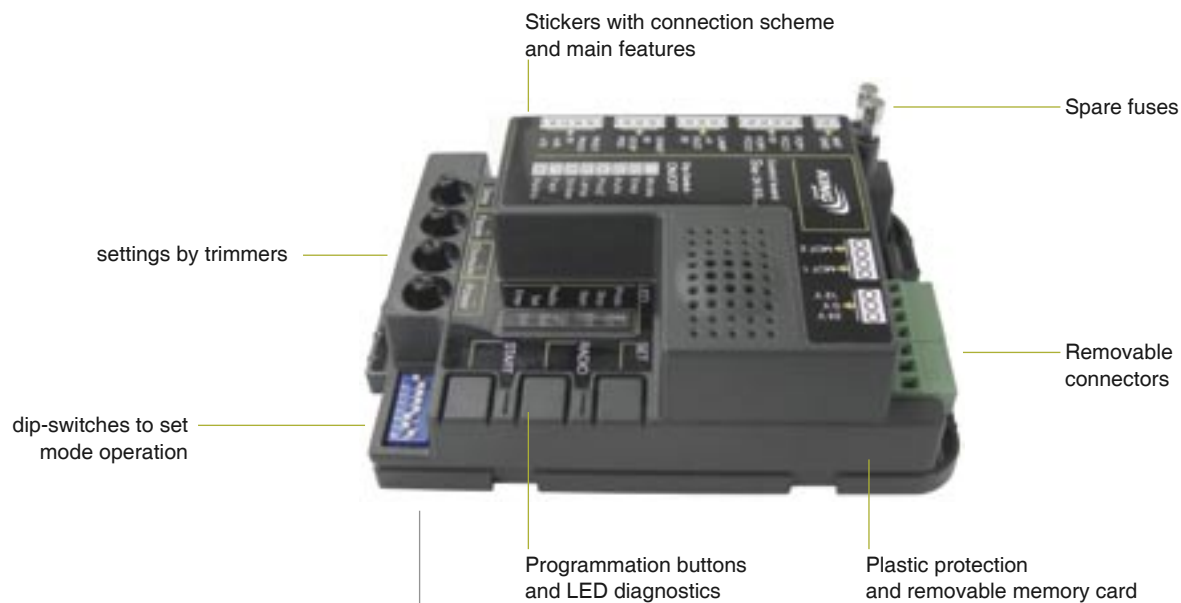
Code	Description
Star 224 Box	Control unit for 1 or 2 motors 24 Vdc in plastic box, built-in transformer 150VA and receiver 433.920 MHz. Included removable memory card MEMO 200.
Star 224 S	Control unit for 1 or 2 motors 24 Vdc ( only board). Removable memory card MEMO 200 not included.

### ACCESSORIES:

ELBOX 22	Bat M 016	Bat K2	Bat K2 Pb	TR 20/24
				
Plastic box	Battery 24V 1,6 Ah	Battery charge card for Bat M016	Battery charge card for standard lead battery	Transformer for Star 224

Selc 100	Selc 12	MEMO 200	MEMO 200 MW
			
Card for electric lock	Card for electric lock and courtesy light	Radio memory module. 200 users	Master Way memory card for Star 224 produced since January 2011. Technical details p.71



#### CONTROL UNITS FOR 1 OR 2 230 Vac MOTORS

Code	Description
Star 2230 Box	Control unit for 1 or 2 motors 230 Vac in plastic box, built-in transformer 40 VA and receiver 433.920 MHz. Included removable memory card MEMO 200.
Star 2230 S	Control unit for 1 or 2 motors 230 Vac ( only board). Removable memory card MEMO 200 not included.

#### ACCESSORIES:

ELBOX 22	Selc 100	Selc 12	TR 40
			
Plastic box	Card for electric lock	Card for electric lock and courtesy light	Transformer for Star 2230

### Dynamos

Automation for  
sliding gates



#### Star D1230



Spare electronic unit  
for Dynamos 500 e 1000,  
MEMO 200 not included.  
(only board)

#### Star D1230 KG



Spare electronic unit  
for Dynamos 500 e 1000  
with MEMO 200 and plastic  
protection

#### St Kit D1230



Spare electronic kit for  
Dynamos 500 e 1000.  
Control unit with MEMO 200,  
plastic protection,  
Transformer and fixing  
bracket. It replaces Star D100

#### Star D2230 MS



Spare electronic unit  
for Dynamos Dynamos Twin,  
MEMO 200 not included.  
(only board)

#### TR 40



Transformer 40VA for  
Dynamos 500 and 1000.

#### Star D124



Spare electronic unit  
for Dynamos 24 V,  
MEMO 200 not included.  
(only board)

#### Star D124 KG



Spare electronic unit  
for Dynamos 24 V  
with MEMO 200 and plastic  
protection

#### St Kit D124



Spare electronic kit for  
Dynamos 500 e 1000.  
Control unit with MEMO 200,  
plastic protection,  
Transformer and fixing  
bracket. It replaces Star D400  
and Star D 500

#### TR 150-12/24



Transformer 150VA  
for Dynamos 24V

### Star

Electronic units  
for swing gates



#### Star 2230 S



Spare electronic unit  
for Star 2230 box.  
MEMO 200 not included.  
(only board)

#### Star 2230 KG



Spare electronic unit  
for Star 230 V with  
MEMO 200 and plastic  
protection.  
It replaces Star 230 S

#### TR 40



Transformer 40VA for  
Star 2230

#### Star 224 S



Spare electronic unit  
for Star 224 box.  
MEMO 200 not included.  
(only board)

#### Star 224 KG



Spare electronic unit  
for Star 24 V with  
MEMO 200 and plastic  
protection.  
It replaces Star 24

#### TR 150-12/24



Transformer 150VA  
for Star 224

#### Elbox 22



Plastic box for  
Star 2230 and Star 224

## Modus

Automation  
for swing gates



### Star M 224 S



Spare electronic unit  
for Modus MA.  
MEMO 200 not included.  
(only board)

### Star M 224 KG



Spare electronic unit  
for Modus MA with MEMO 200  
and plastic protection

## Rolls e Book

Automation for  
garage doors



### Star GDO 100



Spare electronic unit  
for Rolls 650 e 1200

### Star GD 20



Spare electronic unit  
for Book 550

### Star GD 20 Led



Spare electronic unit  
for Book with LEDs  
built-in light

## Mek

Automation for  
overhead doors



### Star M1230



Spare electronic unit  
for Mek 230,  
MEMO 200 not included.  
(only board)

### Star M1230 KG



Spare electronic unit  
for Mek 230  
with MEMO 200 and plastic  
protection

### St Kit M1230



Spare electronic kit for  
Mek 230. Control unit  
with MEMO 200, plastic  
protection, transformer  
and fixing bracket.  
It replaces Star Mek100

### TR 40



Transformer 40VA for  
Star M1230.

### MEMO 200



Radio memory module.  
200 users

### MEMO 200 MW



Master Way memory card  
for Star 24 V produced since  
January 2011.  
Technical details p.71



Hybrid

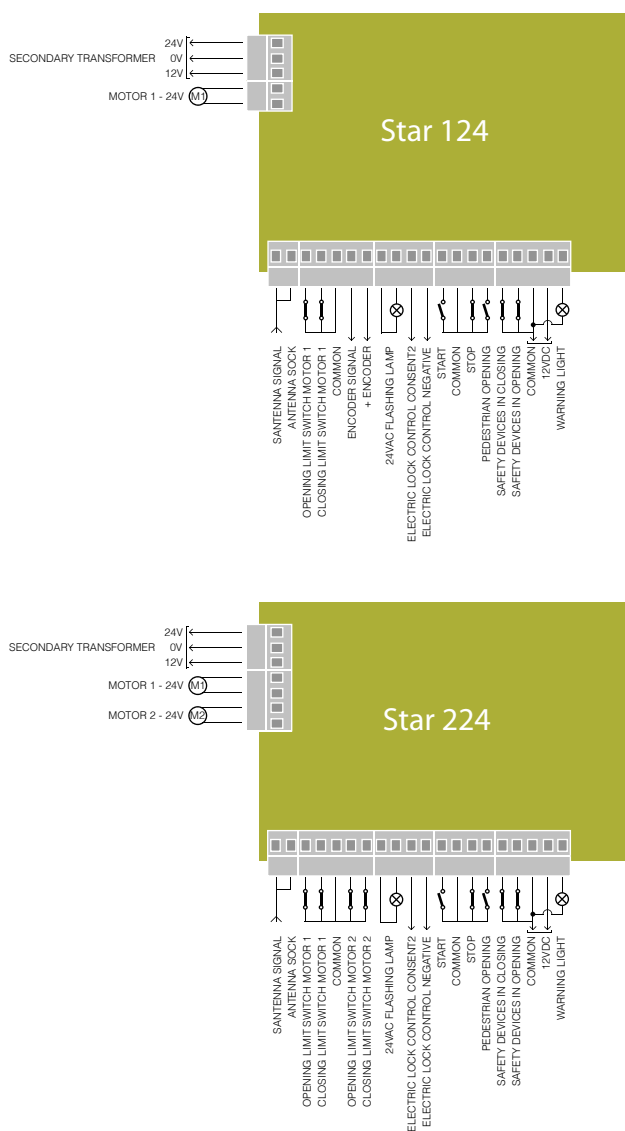


Master.way

### 24 Vdc KINGgates® control units

#### COMBINATION 24V control units - KINGgates operators

Control unit	Gate	Automation
Star D124	Sliding gates	Dynamos 24/350 EV - Dynamos 24/600
Star 224 BOX	Swing gates	Jet 24 - Intro 24
Star M 224	Swing gates	Modus



#### ADJUSTMENTS

	Star D 124	Star 224
Force / Speed	•	•
Stand-by time	•	•
Obstacle sensitivity	•	•
Gate delay		•
Preflashing	•	

#### CHARACTERISTICS

	Star D 124	Star 224
OPEN/PAUSE/CLOSE Mode	•	•
STEP by STEP mode	•	•
Automatic closing	•	•
Encoder Handling	•	
Pedestrian opening	•	•
Rapid re-closing	•	•
Deceleration in opening	•	•
Deceleration in closing	•	•
Safety test	•	•
Open gate control light	•	•
Lock stroke		•
Flashing light	•	•
Built-in radio receiver	•	•
Gradual "soft start"	•	•
Safety in closing	•	•
Safety in opening	•	•
Built-in antenna	•	•
Extractable terminal block	•	•
Radio memory module	•	•



## 24 Vdc KINGgates® control units for garage doors

### COMBINATION 24V control units - KINGgates operators

Control unit	Door	Automation
Star GDO 100	Sectional door or overhead door	Rolls 650 - Rolls 1200
Star GD 20	Sectional door	Book 550



### ADJUSTMENTS

	Star GDO	Star GD 20
Force / Speed	•	•
Stand-by time (by trimmer)	•	
Stand-by time (by button)		•
Obstacle sensitivity	•	•

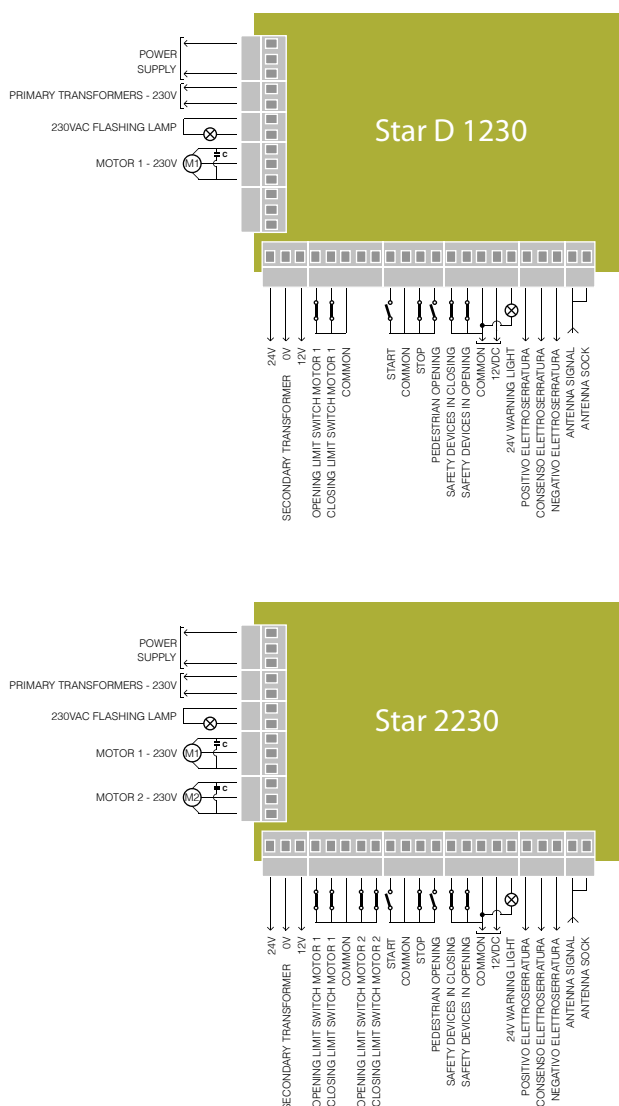
### CHARACTERISTICS

	Star GDO	Star GD 20
OPEN/PAUSE/CLOSE Mode	•	•
STEP by STEP mode	•	•
Automatic closing	•	•
Encoder Handling	•	•
Deceleration in opening	•	•
Deceleration in closing	•	•
Safety test	•	
Flashing light	•	
Built-in radio receiver	•	•
Gradual "soft start"	•	•
Safety in closing	•	•
Safety in opening	•	•
Optional battery charge card	•	
Built-in antenna	•	•
Extractable terminal block	•	•

### 230 Vac **KINGgates®** control units

#### COMBINATION 230 V control units - KINGgates operators

Control unit	Gate	Automation
Star D 1230	Sliding gates	Dynamos 500 - Dynamos 1000
Star 2230	Swing gates	Jet 230 - Linear 300 - Ark 230 - Intro 230



#### ADJUSTMENTS

	Star D1230	Star 2230
Force	●	●
Stand-by time	●	●
Obstacle sensitivity	●	●
Gate delay		●
Preflashing	●	

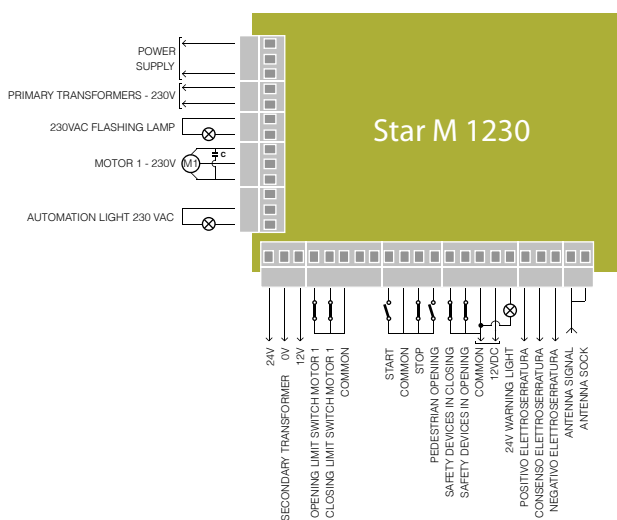
#### CHARACTERISTICS

	Star D1230	Star 2230
OPEN/PAUSE/CLOSE Mode	●	●
STEP by STEP mode	●	●
Automatic closing	●	●
Pedestrian opening	●	●
Rapid re-closing	●	●
Deceleration in opening	●	●
Deceleration in closing	●	●
Safety test	●	●
Open gate control light	●	●
Lock stroke		●
Flashing light	●	●
Built-in radio receiver	●	●
Safety in closing	●	●
Safety in opening	●	●
Built-in antenna	●	●
Extractable terminal block	●	●
Radio memory module	●	●

## 230 Vac KINGgates® control units for garage doors

### COMBINATION 230 V control units - KINGgates operators

Control unit	Door	Automation
Star M 1230	Overhead door	Mek 230



### ADJUSTMENTS

Star  
M1230

Force	•
Stand-by time	•
Obstacle sensitivity	•
Preflashing	•

### CHARACTERISTICS

Star  
M1230

OPEN/PAUSE/CLOSE Mode	•
STEP by STEP mode	•
Automatic closing	•
Rapid re-closing	•
Deceleration in opening	•
Deceleration in closing	•
Safety test	•
Open gate control light	•
Lock stroke	•
Flashing light	•
Built-in radio receiver	•
Safety in closing	•
Safety in opening	•
Built-in antenna	•
Extractable terminal block	•
Radio memory module	•

Rolling code and fixed code radio solutions.

Radiotransmitters, digital selectors, receivers.

# KINGgates®

Part 4 Remote control



# Remote control

Two ways to use KINGgates® radio systems.  
Flexibility or absolute security of the installation



## Hybrid standard flexibility

Hybrid system is an integrated radio system integrated in all KINGgates control units and in the radio receiver Fred Myo2. In this receiver it is possible to program any of the transmitters of the NOVO, Clipper and Stylo range. Also, with the Hybrid mode, the radio transmitters Myo allow to insert new codes in the memory without travelling on site by simply "cloning" the STYLO 4 transmitters.



## Masterway. Management and Security

Master.way is the radio system that allows the control of the transmitters and the maintenance of the installation with the palmtop "Master.way.prog". With this mode it is possible to insert in the installation the NOVO radio accessories and new generation Stylo transmitters Stylo K. In Master.Way mode it is not possible to use cloning transmitters Myo4C.



The evolution of the KINGgates® radio systems offers the installer the most complete choice for residential and community installations.

## ■ How to change from Hybrid mode to Master.Way mode?

The control units STAR come with a standard Hybrid receiver. To convert a control unit from Hybrid mode to Master.Way there are different ways according to the hardware and software of the control unit. In the following table it is possible distinguish the conversion mode of the various control units.

**Changing mode from Hybrid to Master.Way on 24V control units (produced since January 2011)**

Control unit	Automation	Mode
Star D124	Dynamos 24/350 EV, 24/600 e 24/1200	With memory card MEMO MW
Star 224 BOX	Jet 24, Intro 24	
Star M 224	Modus	
Star OP 124	Open	
Star GD 20	Book 550	With palmtop Master.Way Prog
Star GDO 124	Book 1000 HL	
Star GDO	Rolls 650 - Rolls 1200	

**Changing mode from Hybrid to Master.Way on external radio receivers**

Receiver	Mode
Fred Myo 2	not available
NOVO RX	Dip-switch

### New Rolling code “K” protocol

KINGgates has developed a new Rolling code protocol to ensuring the best anti-cloning security and for allowing, thanks to the palmtop “Master.Way prog”, the management of receivers and radiotransmitters.

The new “K” Rolling code is available on the radiotransmitters Stylo 4 KR and Stylo 4 KRS, NOVO TX 4 and on the digital selector NOVO digy.

#### COMPATIBILITY RADIOTRANSMITTER - RECEIVER

Receiver type	Stylo 4	Stylo 4 K	Stylo 4 KS	Myo 4C	Clipper	Novo TX	Novo digy
HYBRID mode - standard on electronic control unit since January 2010	●	●	●	● Copy Stylo 4R	●	●	●
MASTER.WAY mode		●	●			●	●
Novo RX - Fred RX - Fred Myo 2	●	●	●	●	●	●	●
Receiver on control units produced up to January 2010	●				●		
Old receivers Fred 11, Fred 22, Fred 33	●				●		





### AVAILABLE VERSIONS

Code	Description
Stylo 4	Radiotransmitter Rolling code - 4 channels. Compatible with all the KINGgates receiver. Use not allowed with Master.Way mode.
Stylo 4 K	Radiotransmitter Rolling code - 4 channels. Compatible with Master.Way and Hybrid systems produced since January 2010. Programmable with Palmtop Master.Way Prog
Stylo 4 KS	Radiotransmitter Rolling code - 4 channels. Compatible with Master.Way and Hybrid systems produced since January 2010. Package of 20 pieces for serial programming with palmtop Master.Way Prog
BAT3V2	3V spare batteries - 5 pcs.

### TECHNICAL DATA

Code	Frequency	Range	Encoding	Power supply	Power input	Dimensions
Stylo	433,920 MHz	100 m	Rolling code	3Vdc	10 mA	70x38x10



### PLASTIC COVERS

Code	Color
Cover RE 4	Red
Cover WE 4	White
Cover GR 4	Green
Cover BL 4	Blue

! Minimum order 10 pieces



AVAILABLE VERSIONS

Code	Description
Myo C4 BL	Radiotransmitter 4 channel with copy function. Black.
Myo C4 WE	Radiotransmitter 4 channel with copy function. White.
BAT3V2	3V spare batteries - 5 pcs.

“Myo 4C” is the 433,92 Mhz radiotransmitter with copy function.  
Combined with receiver in Hybrid mode, Myo 4C can “copy” the Rolling code radiotransmitters Stylo 4, it allows to the installer to insert new transmitters in the memory without travelling on site.  
Myo 4C replaces the biggest part of fixed code transmitters in the market with an easy and fast copy procedure. Also Myo 4C generates basically a fixed code that can work directly with the external radio receivers Fred Myo 2.

TECHNICAL DATA

Code	Frequency	Range	Encoding	Power supply	Power input	Dimensions
Myo	433,920 MHz	100 m	Fixed + copy	3Vdc	10 mA	73x38x12

Metallic chromed frame



# Clipper

Radiotransmitter  
Rolling code - 433,92 MHz



## AVAILABLE VERSIONS

Code	Description
Clipper 2	Radiotransmitter 2 channels
Clipper 4	Radiotransmitter 4 channels
BAT3V2	3V spare batteries - 5 pcs.



## TECHNICAL DATA

Code	Frequency	Range	Encoding	Power supply	Power input	Dimensions
Clipper	433,920 MHz	100 m	Rolling code	6Vdc	10 mA	69x35x11

# NOVO Tx

Wall or table radiotransmitter  
Rolling code - 433,92Mhz



## AVAILABLE VERSIONS

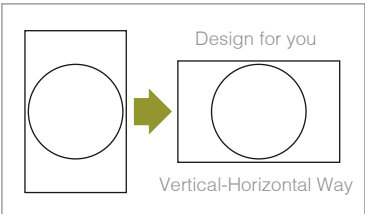
Code	Description
NOVO TX4	Wall radiotransmitter. 4 channels - 433,92 MHz
BAT-AAA	Spare batteries. 2 pcs

### WALL OR TABLE

NOVO tx is the KINGgates 4 channel wireless transmitter. Designed to be wall mounted or used as a table top thanks to the anti-slip rubber included in the package.  
NOVO tx is programmed as a normal transmitter and battery replacement is fast and easy

## TECHNICAL DATA

Frequency	433,92 MHz
Range	100 m
Coding	Rolling code
Power supply	2 x 1,5 V
Battery	2 x AAA
Dimensions	mm 109 x 65 x 35
Protection level	IP 40



Metal protection dust painted

# NOVO digy

Numeric combination keypad.  
Rolling code - 433,92Mhz



Hybrid



Master.way

### EASY AND SECURE TO INSTALL

NOVO digy is the KINGgates numeric combination keypad via radio that can control up to 3 automation with a security code and also has a direct channel without numeric code combination. NOVO digy is programmed as a simple remote control and provides maximum security through the MASTER code changed or deleted only by the installer.

### INNOVATIVE DESIGN

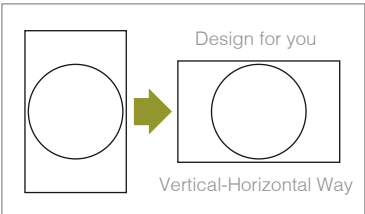
NOVO digy is the perfect combination of aesthetic design and installation flexibility. Designed to be installed vertically with screen printing of the numbers on the front, you can install NOVO digy horizontally by applying a rigid label (included in the package rotating the numbers of 90 degrees). Like every product of the NOVO line you can install the device on recess box 503.

### AVAILABLE VERSIONS

Code	Description
NOVO digy	Numeric radio keypad . 4 channels 433.92MHz
BAT-AAA	Spare batteries. 2 pcs

### TECHNICAL DATA

Frequency	433,92 MHz
Range	100 m
Coding	Rolling code
Power supply	2 x 1,5 V
Battery	2 x minitilo AAA
Dimensions	mm 109 x 65 x 35
Protection level	IP 54



Recess box 503  
compatible



Metal protection dust painted

# Radio RX

Radio receivers  
433,92 MHz



Fred Myo 2



## AVAILABLE VERSIONS

Code	Description
Fred Myo 2	External radio receiver with plastic box, IP 54. 2 channels - 480 codes



Novo RX



## AVAILABLE VERSIONS

Code	Description
NOVO RX 2	Receiver with metal protection IP54. Mono-stable, bi-stable and Timed option functioning. Included removable memory. 2 channels - 200 codes.
FRED RX 2	Receiver with plastic box. IP 40 Mono-stable, bi-stable and Timed option functioning. Included removable memory. 2 channels - 200 codes.
MEMO 1000	Memory card 1000 codes for NOVO RX e NOVO RX2.



Ant 433E

## ACCESSORIES

Code	Description
Ant 433E	Antenna 433,92 MHz with cable



### PROFESSIONAL AUTOMATION

Master.Way Prog is the palmtop programmer ideal for professional management of residential, industrial and community village automations. Compatible with universal receivers NOVO Rx and Fred Rx and all the 24V control units produced since January 2011.

Through the accessory MW Software, you can store in your PC data contained in the palmtop (via USB cable connection), while the graphic is a valuable support for maintenance contracts.

### MAINTENANCE AND MANAGEMENT

Master.Way Prog is a palmtop programmer that allows you to manage the radio system of an installation. Adding, deleting transmitters or programming rapidly numerous transmitters (Stylo 4KS) are only some of functions that allow the installer to save time and gives added value to the installation. The possibility to see the run cycles of the automation and the main diagnostic parameters makes Master prog Way valuable tool for controlling the installation and the management of maintenance contracts.

### SYSTEM PROTECTION

Master.Way prog allows the installer to protect their installation with 3 levels of password for the control unit memory and transmitters of an installation.

The 3 levels of protection (installer code, installation code, user code) allows the monitoring of each individual user and the ability to match every single transmitter with owner's name (ex. Mr. Smith) allows a fast and efficient search in case of cancellation of a user from the system.

### MASTER.WAY PROG

Code	Description
MW Prog	Palmtop with connection accessories
MW software	Data file software
MEMO 200 MW	Master Way memory card for Star 124 and Star 224 produced since January 2011. Technical details p.71

Full range of accessories  
for safe installations



KINGgates®  
Part 5 Accessories





Click IN



Click EX



Digy elite

### SELECTORS

Code	Description
Click IN	Recessed key selector
Click EX	External key selector
Digy elite	Stainless steel anti-vandalism hard-wired digital selector, IP67, 500 users. Back-lighted.



SPIRO B1



SPIRO BOX 1



SPIRO UN1/UN2

### METALLIC MASS DETECTORS

Code	Description
Spiro B1	Detector 1 channel - only board
Spiro Box 1	Detector 1 channel - Plastic box IP 56
Spiro UN 1	Detector 1 channel - Plastic box IP 44 with connector Undecal
Spiro UN 2	Detector 2 channels - Plastic box IP 44 with connector Undecal

### INDUCTIVE COIL

Code	Description
WIRE 6	Pre-assembled coil - perimeter 6m
WIRE 10	Pre-assembled coil - perimeter 10m



### ANTIVANDAL SYSTEM

NOVO-click is the new KINGgates wall mounted key selector switch. NOVO click is built with miniature pre-wired microswitches and has antivandal system with customized key.

### PRE-WIRED MICROSWITCH

NOVO click was created to combine aesthetic, originality and ease of use. For this reason, unlike the usual key selectors that require time and special tools to clamp blade cable terminals on the microswitches, click NOVO has a pre-wired terminal that allows quick connection to the control board.

### FLEXIBLE INSTALLATIONS

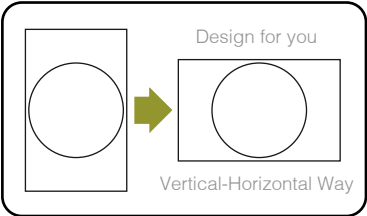
Shock resistant and can be installed vertically or horizontally, like all the NOVO product line you can install the device on recessed box 503.

### AVAILABLE VERSIONS

Code	Description
NOVO click	Key selector with pre-assembled connectors

### TECHNICAL DATA

Dimensions	mm 104 x 60 x 30
Protection level	IP 54



Metal protection dust painted



Viky 11



Viky 22



Viky Plus



Viky 180  
Viky B2

### PHOTOCELLS

Code	Description
Viky 11	Pair of external photocells
Viky 22	Pair of recessed photocells
Viky 180	Pair of 180° rotating photocells
Viky B2	Pair of 180° rotating photocells with batteries
Viky PLUS	Pair of external long range photocells

Code	Supply	Consumption	range	Working temp.
Viky 11	12 ÷ 24 Vac-Vdc	50mA (TX+RX)	30m Standard	-20° +55°
Viky 22	12 ÷ 24 Vac-Vdc	50mA (TX+RX)	35m Standard	-20° +55°
Viky 180	12 ÷ 24 Vac-Vdc	60mA (TX+RX)	25m Standard	-20° +55°
Viky B2	12 ÷ 24 Vac-Vdc (RX) Battery 3V (TX)	35 mA (RX) 25 mA (TX)	20m Standard	-20° +55°
Viky PLUS	12 ÷ 24 Vac-Vdc	50mA (TX+RX)	100m Standard	-20° +55°

### ACCESSORIES

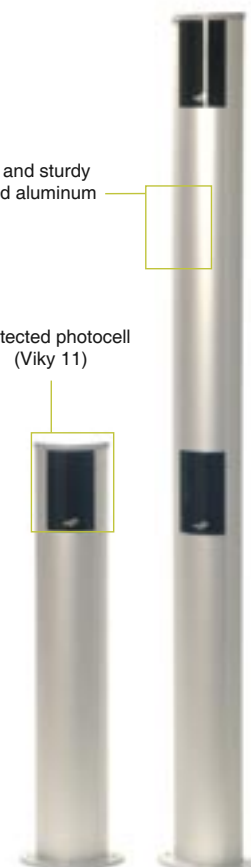
Code	Description
Super 100	Plastic bracket for Viky 11

### COLUMNS

Code	Description
Tower 500	Column for 1 photocell Viky11, height 500 mm (2 pcs./package)
Tower 1000	Column for 2 photocells Viky11, height 1000 mm (2 pcs./package)
PTO 01	Fixation plate (2 pcs./package)

Elegant and sturdy  
anodized aluminum

Protected photocell  
(Viky 11)





### MAXIMUM SECURITY

NOVO digy is the KINGgates photocell with protective metal case. NOVO ph is a infrared photocell with great performance with a range in open space of 30 meters and up to 15 meters in critical weather conditions. NOVO ph180 is the new photocell adjustable in 3 positions (0 ° -90 ° -180 °),easy to install in all environments

### SHOCK PROTECTION

Thanks to metallic alloy case NOVO ph is a robust and shock-resistant photocell, integrates with all the NOVO accessory line and ensures the security of all automated paths through a sober and original way.

### PROFESSIONAL DESIGN

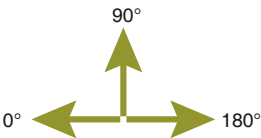
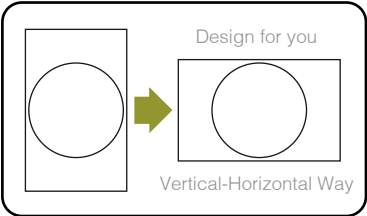
The size and the metal case protection of the NOVO accessories make the photocell NOVO ph a solid and professional product. Like every product of the NOVO line you can install it with the recess box 503

### AVAILABLE VERSIONS

Code	Description
NOVO ph 180	Pair of rotatin photocells (0°-90°-180°) with metal protection

### TECHNICAL DATA

Supply	12 ÷ 24 Vac-Vdc
Range	30 m standard
Consumption	50 mA (TX+RX)
Working temperature	-20° + 55°
Protection level	IP 54
Dimensions	mm 109 x 65 x 35



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Idea



Idea WE

To order it, indicate the abbreviation "WE" after the code. Example: Idea 230 WE  
Not available for Idea 12

### FLASHING LAMPS

Code	Lamp	Built-in electronics	Antenna	
Idea 230	230V 15W			
Idea 230 Plus	230V 5W		●	
Idea CL 230	230V 15W	●		
Idea CL 230 Plus	230V 15W	●	●	
Idea 12	12V 3W			
Idea 12 Plus	12V 3W		●	
Idea 24	24V 10W			
Idea 24 Plus	24V 10W		●	

### Idea

### Control unit

Idea 230	Star D1230, Star M1230, Star 2230
Idea 24	Star GDO (Rolls) - Star OP - Star D 124 - Star 224 - Star M 224
Idea CL 230	Star D1230, Star M1230, Star 2230, Star B plus

### ACCESSORIES

Code	Description
Super 100	Plastic bracket for wall installation
CV Idea	Double insulation cable with shielding for flasher connection. 2x0,75 + RG58. L = 100 m
TAB	Sign board

### Super 100



### CV Idea



### LAMPS

Code	Description
La 230	230 Vac 25 W. Yellow (2pcs/package)
La 230 WE	230 Vac 25 W. White (2pcs/package)
La 12	12 Vdc 3 W. Yellow (2pcs/package)
La 24	24 Vdc 10 W. White (2pcs/package)
La 24 WE	24 Vdc 10 W. Yellow (2pcs/package)

### TAB



# NOVO light

## Wall mounted flashing light



### WALL TECHNOLOGY

NOVO Light is the KINGgates wall flashing light. With the programmable functions in the KINGgates control units , NOVO light can be powered in a "oscillating" or continuously so that it can be used as a flashing light or courtesy light. The LED technology in the version NOVO LT Led guarantees intensity , low consumption and long life.

### INNOVATIVE DESIGN

Can be installed vertically or horizontally, NOVO light is ideal flashing light for garage door and residential gate use. The compact size and the metal case protection make this original product blend into all environments. Like all the NOVO product line you can install NOVO light with the recess box 503. Practical and original is the direct installation on the overhead door frame.

### INTEGRATED ANTENNA

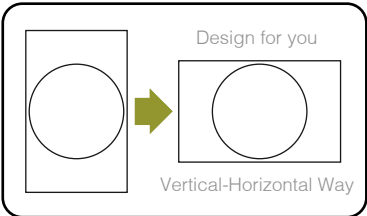
The metal cover makes NOVO light a shock resistant product, while the integrated antenna avoids vandalism and enhances the radio transmitter range.

### AVAILABLE VERSIONS

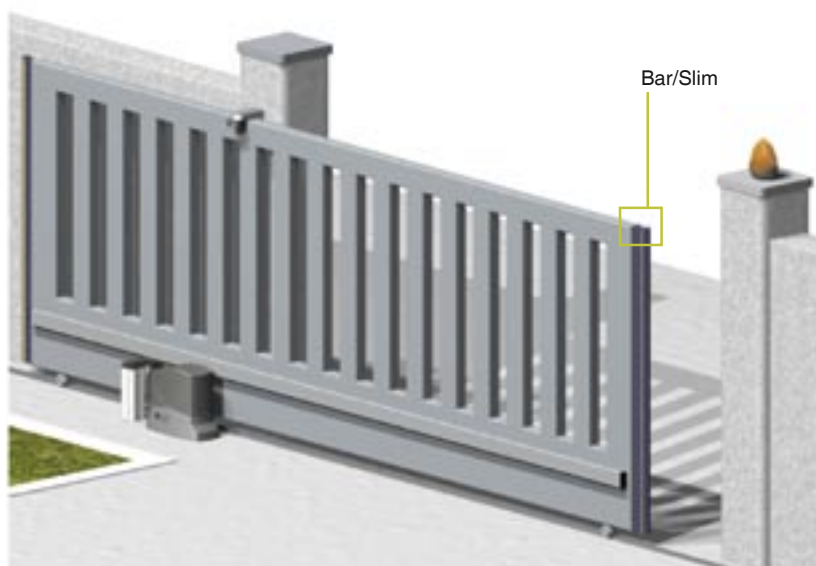
Code	Description
NOVO LT 24 plus	24V lamp, 10W with integrated antenna
NOVO Led plus	24V lamp, LED technology with integrated antenna
LA 24NV	Spare lamp for NOVO LT Plus

### TECHNICAL DATA

Supply	24 Vac
Lamp	E10 10W (version LT 24)
Built-in antenna	433,92 MHz
Protection level	IP 54
Dimensions	mm 109 x 65 x 35



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### SAFETY EDGES

Code	Passive shock system	Micro switches	Required Controlbar	Lenght	
Passbar 1400	●			1400	
Passbar 1800	●			1800	
Passbar 2000	●			2000	
Passbar 2500	●			2500	
Bar 1400		●		1400	
Bar 1800		●		1800	
Bar 2000		●		2000	
Bar 2500		●		2500	
Topbar 1400		●	●	1400	
Topbar 1800		●	●	1800	
Topbar 2000		●	●	2000	
Topbar 2500		●	●	2500	
Slim 1500		●		1500	
Slim 1700		●		1700	
Slim 2000		●		2000	
Slim 2500		●		2500	



Code	Description
Controlbar	Control card for Topbar

### RADIO DEVICE

Code	Description
Movi Control RX	Radio device for the activation of electric safety edges. Receiver
Movi Control TX	Radio device for the activation of electric safety edges. Transmitter



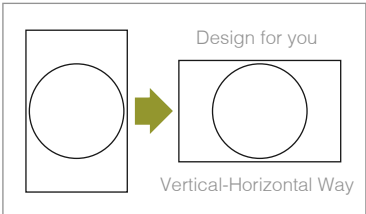
# NOVO Pass

Proximity reader for  
transponder card



### TECHNICAL DATA

Proximity range	5 - 10 cm
Dimensions	mm 109 x 65 x 35
Protection level	IP 54



### AVAILABLE VERSIONS

Code	Description
NOVO Pass	Proximity reader to combine with the decoder "DC Pass 250"
DC Pass 250	Decoder for NOVO Pass, 250 codes
Card KG	Transponder card
Myo 4RPS	Radiotransmitter Rolling code with double technology, built-in transponder.
Myo 4CPS	Radiotransmitter fixed code with double technology, built-in transponder and copy function.

### DESIGN TO ACTIVATE

NOVO Pass is the KINGgates transponder reader. Can be installed in residential and commercial sites, NOVO Pass, with DC Pass decoder, enables the activation of automations or any other electrical device with the approaching of the transponder card or the Dual technology transmitters Myo 4 RPS and Myo 4 CPS.



Metal protection dust painted

# SALES CONDITIONS

The purchase of King gates products implies full acceptance of the sales conditions listed hereunder.

## 1) PRICES

The prices of the goods are those in the price list that is valid at the time of stipulation of the sales contract.  
The current price list completely replaces the previous ones.  
The purchaser hereby declares that he is aware of and approves the applied prices.  
The prices refer to goods provided ex-works at our plant located in Sacile (PN), via Malignani, no. 42.  
VAT is not included in the price list and is at the complete expense of the purchaser.

## 2) DELIVERY

Delivery terms take effect as of the receipt of the order and are expressed in working days.  
Goods travel by means of a carrier assigned by us and the amount will be included in the invoice.  
If desired by the customer, the goods may be picked up by another carrier, or they can be picked up at our location in Sacile (PN).  
In any case, the purchaser is liable for all risks and expenses concerning transport of the goods.

## 3) CLAIMS

Claims for missing or damaged goods must be made immediately and in writing on the shipping documents, and they must be signed by the carrier as well.  
Any claims for other defects of conformity of the goods must, in order to be considered valid, be communicated to the manufacturer within eight days of delivery by registered return post. Claims do not suspend the terms of payment for the goods which are not contested, charges for which must immediately be paid in full.

## 4) GUARANTEE

All King gates equipment is carefully checked and tested. The products are guaranteed for 24 (twenty-four) months from the date of invoicing of the final user.  
Validity of the guarantee is contingent upon the final user producing the invoice.  
The guarantee covers repair or replacement only of those pieces which are recognized as defective.  
The guarantee covers only original manufacturing defects.  
It does not cover defects due to installation, failure to comply with applicable standards, transport, abnormal use of the product, chemical agents or atmospheric events.  
For materials no longer covered by the guarantee, we ensure repair of the equipment by replacing parts that can be repaired.  
Repair expenses will be charged in full to the client.  
No reimbursement shall be due for damage due to incorrect installation, failure to observe applicable standards, defects caused by transport, abnormal use of the product, or product defects due to chemical agents or atmospheric events.  
In general, no reimbursement shall be due for damage, direct or indirect, related to installation, nor for those, direct or indirect, due to use of the equipment and not attributable to an original defect in the product.  
Goods may not be returned unless previously authorized and free at destination.  
After repair or replacement, goods covered by guarantee shall be returned freight collect.

## 5) PAYMENTS

Payments must be made as per the terms and methods set forth in the invoice.  
For deferred payments, interest due shall be charged at current bank rates.  
Failure to meet the due dates shall entitle Antonioli Mario & c. s.a.s., owner of the brand "King gates", to demand immediate payment of all other payment due, even prior to the due date, and to suspend supply.  
Goods are sold with the clause of reserved dominion.  
In the event of failure of the purchaser to fulfil his obligations, the contract is considered resolved, after written notification of the company Antonioli Mario & c. s.a.s. to the purchaser of the intention to apply this clause.  
If the contract is resolved due to failure to fulfil obligations by the purchaser, paid instalments are to be considered as permanently withheld by the seller as compensation.  
No compensation is admitted between any credit of the purchaser against Antonioli Mario & c. s.a.s. and the debts of the purchaser.

## 6) PLACE OF JURISDICTION

The place of jurisdiction for any dispute that may arise in relation to the performance of the contract is the Law Court of Pordenone. Italy.

KINGgates®

Thanks for choosing us



**Dealer**

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