



## POWER-PARK

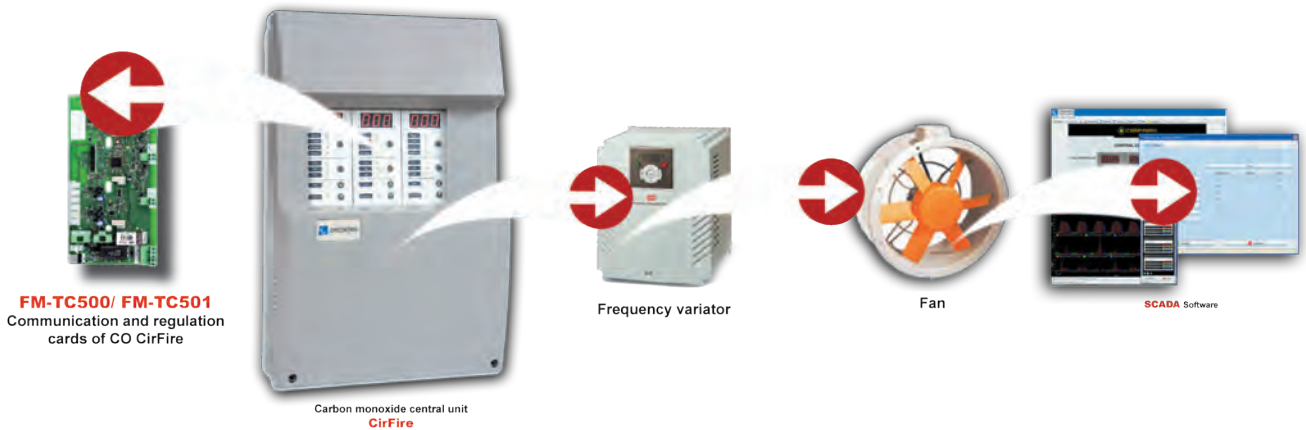
**CIRCONTROL** offers the car park market the technology available for optimum management of electric power, reducing consumption to the bare minimum. This process starts with monitoring the consumption of the car park. Once the consumption information is received, the electric resources of the facility can be optimally managed.

By means of the CIRFIRE System, CIRCONTROL activates the car park's ventilation systems, performing intelligent management of all smoke-extraction systems.

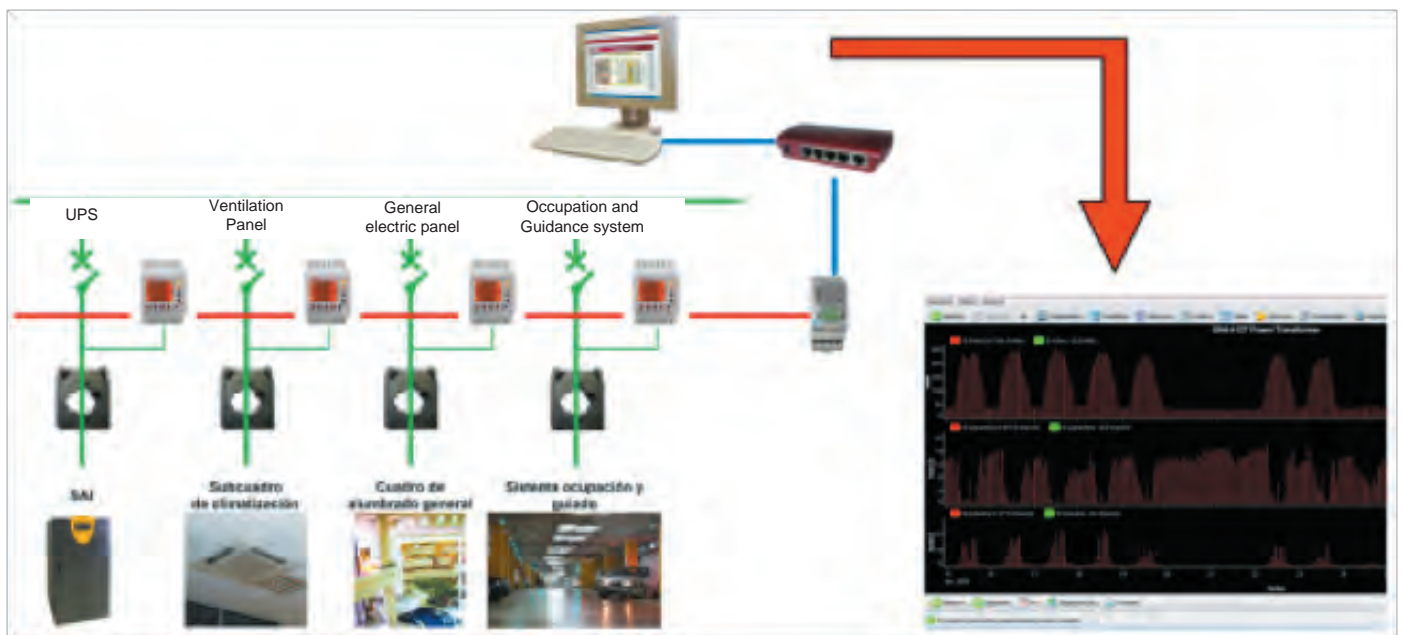
Finally, CIRCONTROL electronic technology provides all kinds of instruments for monitoring signals and remote or programmed actions, allowing the centralisation of all car park facilities.

CIRCONTROL applications can be used with the CIRPARK-Scada, which is fully prepared for integration in TOTAL management applications.

- **Efficient management of the ventilation systems** to avoid sudden starting and stopping of the system. CO detectors send information to the station, which intelligently manages the movement of fans adapted with a speed regulator via the SCADA control software.





- **Monitoring the power supply systems:** Implementation of electric current meters, CVM-MINI, to collect up to 54 electricity parameters, with the option to display the information in consumption graphs.







- **Preparation of energy efficiency studies:** Energy Saving studies can be drawn up using the parameters detected and the results obtained from optimum management of the ventilation and power mains systems. These offer the car park Operator efficient, productive actions that can be quickly written off.

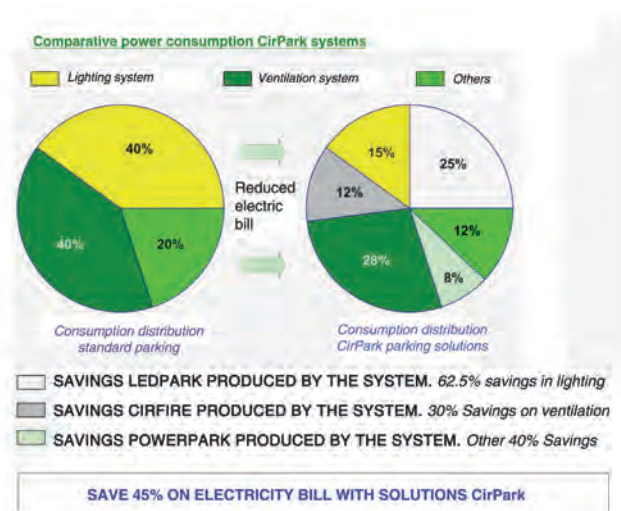


## ENERGY EFFICIENT PARKING









TYPE	CODE	DESCRIPTION
<b>PK-ENERGY KIT</b> 	460188	<b>Car park energy management kit.</b> Can be used to manage and control the consumption and electric power of the car park. Kit made up of one CVM-MINI grid analyser + one three-phase measurement transformer.
<b>TCP2RS+</b> 	310029	<b>Industrial RS-485 to TCP-IP Ethernet communication converter.</b> RS-232/RS-485 opto-isolated port. Input power: 230 V AC. Consumption: 2 VA. DIN rail.

## AUTOMATION EQUIPMENT

TYPE	CODE	DESCRIPTION
<b>CDU-TCP-PARK</b> 	460233	<b>Signal concentrator, with information management and storage capacity, via the equipment control system over the RS485 bus.</b> Four digital inputs and four relay outputs. 10BaseT/100BaseTX Ethernet port. Input power: 230 V AC
<b>MR44-PARK</b> 	460211	<b>Centralisation unit, with four digital inputs and four relay outputs.</b> Input power: 230 V DC. Communication: RS485.
<b>MRA42-PARK</b> 	460261	<b>Centralisation unit, with two digital inputs, four analogue inputs and two relay outputs.</b> 230 V DC input power. Communication: RS485.
<b>MR50-TCP-PARK</b> 	460262	<b>Control unit used to control automated systems, with 50 digital inputs.</b> Input power: 230 V AC. Consumption: 6 VA. Ethernet connection.



# CO SYSTEM

TYPE	CODE	DESCRIPTION
<b>CO DETECTION CONTROL PANELS</b>		
<b>FM-C501</b> 	560972	<b>One-zone CO detection control panel</b> , expandable to 3 with module FM-M509, fitted in ABS plastic casing, with flush mount option. Each module allows connection of up to 32 detectors connected to 2 wires without polarity, with a maximum distance of 1 km. The system has three programmable level relays, extraction 1, extraction 2 and alarm. The relays can be configured to be activated with a fault. The system of algorithms has two operation types, standard or by line sensing. The system has a test mode for maintaining the installation. Optionally, the system can incorporate the cards FM-TC500 or FM-TC501, which allow you to control a speed regulator connected to a motor, making energy savings. Dimensions 439 x 268 x 112.
<b>FM-C502</b> 	560973	<b>Two-zone CO detection control panel</b> , expandable to 3 with module FM-M509, fitted in ABS plastic casing, with flush mount option. Each module allows connection of up to 32 detectors connected to 2 wires without polarity, with a maximum distance of 1 km. The system has three programmable level relays, extraction 1, extraction 2 and alarm. The relays can be configured to be activated with a fault. The system of algorithms has two operation types, standard or by line sensing. The system has a test mode for maintaining the installation. Optionally, the system can incorporate the cards FM-TC500 or FM-TC501, which allow you to control a speed regulator connected to a motor, making energy savings. Dimensions 439 x 268 x 112.
<b>FM-C503</b> 	560974	<b>Three-zone CO detection control panel</b> , fitted in ABS plastic casing, with flush mount option. Each module allows connection of up to 32 detectors connected to 2 wires without polarity, with a maximum distance of 1 km. The system has three programmable level relays, extraction 1, extraction 2 and alarm. The relays can be configured to be activated with a fault. The system of algorithms has two operation types, standard or by line sensing. The system has a test mode for maintaining the installation. Optionally, the system can incorporate the cards FM-TC500 or FM-TC501, which allow you to control a speed regulator connected to a motor, making energy savings. Dimensions 439 x 268 x 112.
<b>FM-M509</b> 	560975	<b>CO Module for expanding plants</b> . Each module allows the connection of up to 32 sensors connected to two wires, no polarity, with a maximum distance of 1 km.
<b>CO DETECTORS CIRFIRE</b>		
<b>FM-D500</b> 	560971	<b>Electrochemical carbon monoxide detector with base and spacer for pipe sight included</b> . Connection to 2 wires without polarity. Designed for installation on ceilings. Certified according to standard UNE 23300:1984.
<b>FM-DP500</b> 	560978	<b>Carbon monoxide detector with electrochemical cell</b> . Designed for installation on pillars or walls. Connection to 2 wires without polarity. Certified according to standard UNE 23300:1984.
<b>CO SYSTEM ACCESSORIES</b>		
<b>FM-TC500</b> 	560976	<b>Card for connecting up to 3 speed regulators</b> to control their corresponding motors and obtain optimum performance of the extraction motor, saving on the electricity consumption.
<b>FM-TC501</b> 	560977	<b>Card for connecting up to 3 speed regulators</b> to control their corresponding motors and obtain optimum performance of the extraction motor, saving on the electricity consumption. Also includes remote connection via Ethernet, allowing programming, remote management and telemaintenance of the installation.

## MONOPHASIC ENERGY



Frequency converter for triphasic motors 230V. CIRCONTROL series converters are suitable for the variation of speed through voltage and frequency ventilation by helical and centrifugal triphasic motors 230V. Energy converter: **Monophasic** 230V. 50/60 Hz.

TYPE	CODE	INTENSITY	KW	CV
FM-V05M	560650	2,5	0,37	0,5
FM-V2M	560657	8	1,5	2

## TRIPHASIC ENERGY



Frequency converter for triphasic motors of 400V. CIRCONTROL series converters are suitable for the variation of speed through voltage and frequency ventilation by helical and centrifugal triphasic motors 400V. Energy converter: **Triphasic** 400V. 50/60 Hz.

TYPE	CODE	INTENSITY	KW	CV
FM-V1T	560652	2,5	0,75	1
FM-V5T	560653	9	4	5,5
FM-V10T	560654	16	7,5	10
FM-V20T	560655	30	15	20

Note: The converter is selected in function of extraction engine capacity.

