



**E045-E145: the new boards for 230V swing-leaf gates.**  
Safety reaches new heights.

**FAAC**  
*Simply automatic.*







# E045-E145

The new generation boards:  
greater safety, greater performance,  
greater energy savings



## **More safety, less worries.**

The E045 and the E145 control boards, featuring the new SAFEcoder absolute encoder, make it easier, without the need for additional accessories, to comply with the standards for systems with 230V swing-leaf actuators as per new Machinery Directive 2006/42/CE, be they hydraulic or electromechanical.

## **Nothing to fear, all to gain.**

The technological innovations introduced provide the board an high energy efficiency, which translates into considerable economic savings.

## **Flexible intelligence. Technology and comfort perfectly connected.**

The E145, which can also be programmed using the new EasyBoard software, is designed for remote control using GSM, Ethernet and Wi-Fi expansion modules. The installer can therefore provide high-quality remote maintenance service and integrate the automated system in any centralised control system present.



# Reliability has its secrets.



## Motor control

The boards feature a sophisticated electronic deceleration system and 5 relays for redundant motor control to drastically reduce possible malfunctions.

## Operating logics

The E045 features up to 7 operating logics while the E145 supplies more than 10 with customisable options, for installation that will meet any customer request.

## USB

Using a USB drive, you can update the board firmware, save/load the configuration and radio codes, and store them on PC/MAC.

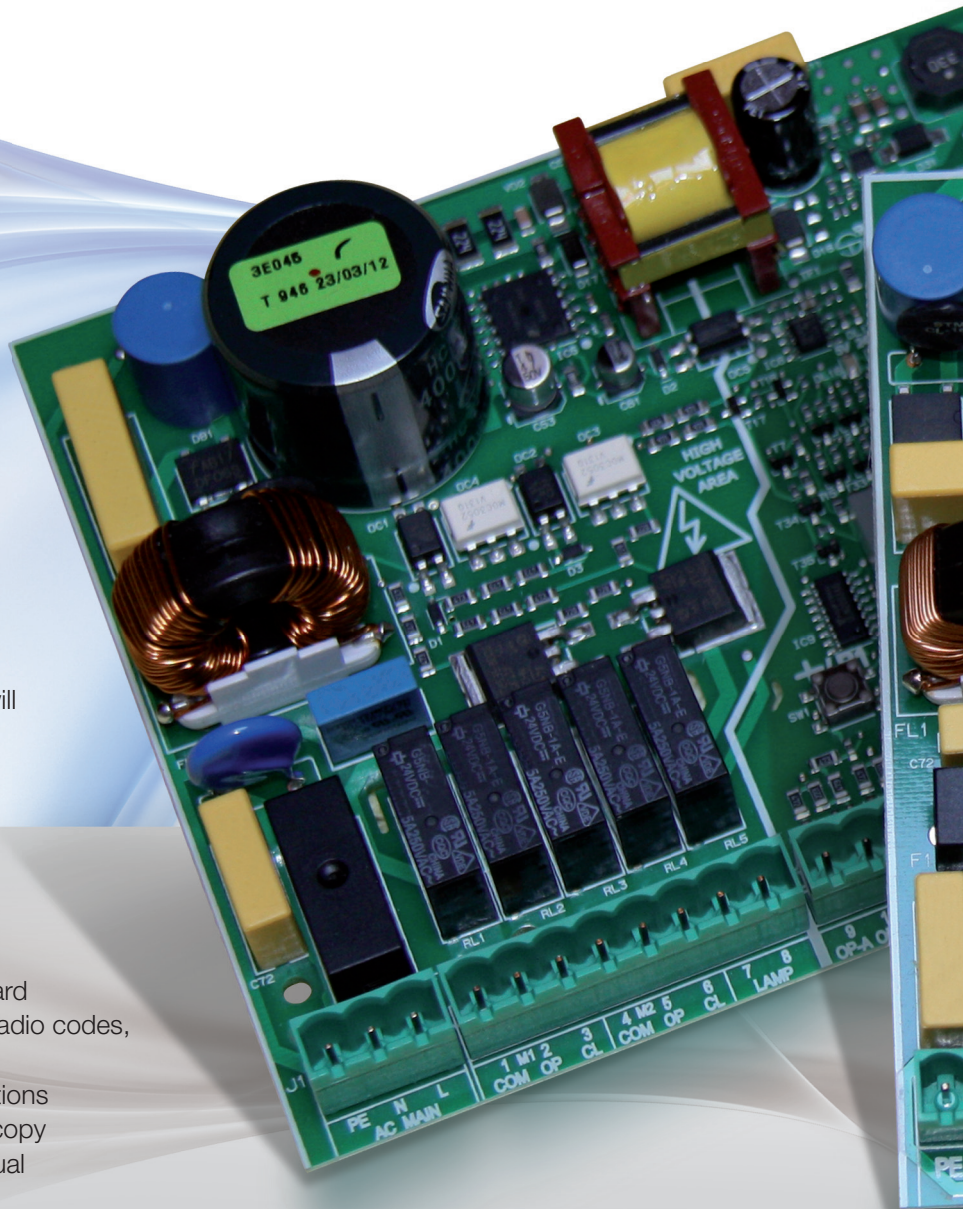
Therefore is possible to copy the configurations from an installation to another and keep a copy of memorized transmitters, to avoid a manual memorization in case of board substitution.

## Switching power supply

The energy efficient switching power supply guarantees high immunity to interferences in mains power. The E145 also features an extended power supply range (from 90VAC to 260VAC) and handles standby modes, thus further reducing consumption.

## User display and interface

The digital display, the function LEDs and only three keys let you easily program the board and test its state at any time. Using the same keys, also transmitters can be quickly memorised.



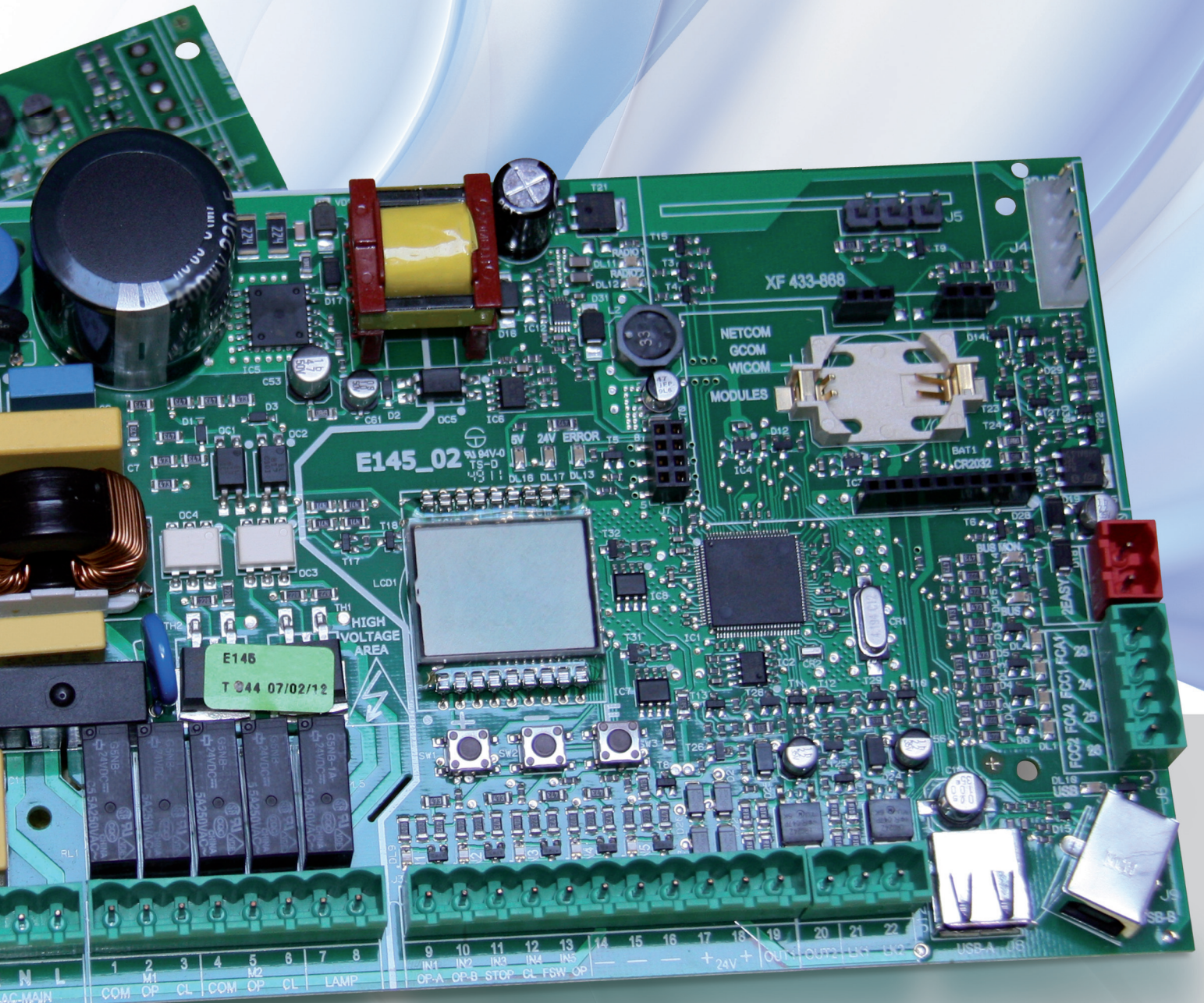


## BUS 2Easy

Using only two wires, the BUS 2Easy connector lets you easily connect many accessories, such as photocells (up to 16 pairs with polarised beam) and the SAFEcoder.

## Omnicdec

The radio decoding circuit that can support the DS, RC, SLH and SLH LR technologies, is directly integrated on the board. It is therefore possible to memorise remote controls on the board itself, back them up and, with the E145, add or eliminate remotely.



## Diagnostics and maintenance

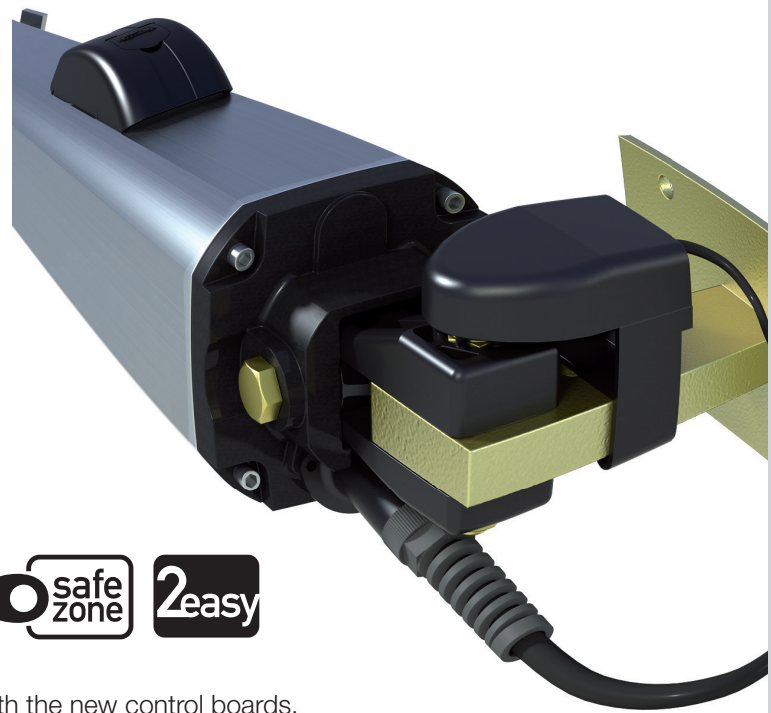
The boards are designed to facilitate maintenance and system troubleshooting. If present, an error code will be displayed indicating the possible cause of the problem to the installer. The E145 stores the events log, making it possible to trace the details of up to 350 (approx. 100 complete cycles).

## Retrocompatibility

The new boards can be inserted in the current plastic boxes and the terminal strips are compatible with those of current FAAC boards. With the E145 it is possible to re-use the terminal strips of the board being replaced without the need to re-wire.



# The heart of safety: **SAFEcoder.**



The **SAFEcoder** (FAAC Patent) absolute encoder combined with the new control boards, for complete movement and reversal on obstacle control, features the following advantages:

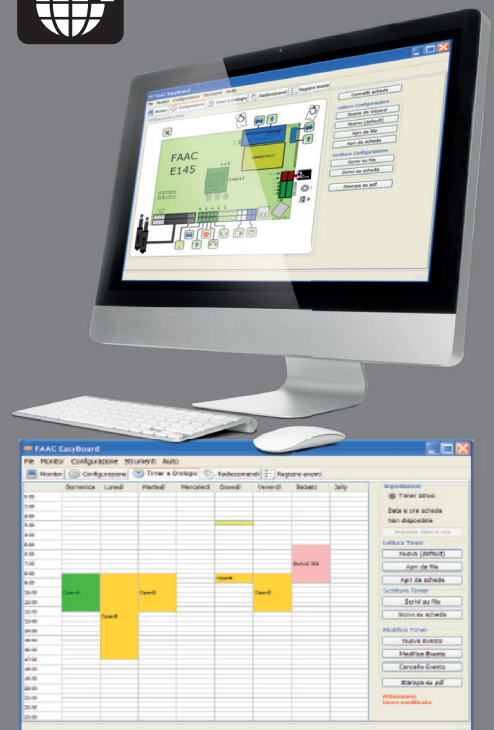
- lets you easily observe the impact curve for automated system compliance according to the new Machinery Directive 2006/42/CE
- can be easily installed also on existing systems, without the need to change connections and measurements
- makes it easy to automatically and precisely find the deceleration and stop points
- allows the automated system to avoid pushing against the stop, thus increasing its frequency of use and life, as well as reducing energy consumption
- makes it possible to eliminate mechanical stops by manually setting the stop points
- in the event of power failure, the absolute encoder will keep memorized the position of the leaf wherever it has stopped, thus avoiding anomalous cycles after particular events.

## Software EasyBoard for E145

The PC/MAC compatible EasyBoard Software represents the technological state of the art in the guided programming of high-level FAAC boards.

With EasyBoard you no longer require additional external programmers to obtain the highest flexibility of the boards.

- It guides the user choices through the graphical and intuitive interface and allow the complete and easy programming of any system
- It allows the data storage (configurations, timer, transmitters, event log) and therefore their reuse for other installations or for fast system replacement
- It offers real time diagnostics for each part of the system, reporting any eventual malfunction and logging the last 350 events (about 100 full cycles)
- It simplifies the integrated timer programming through a user-friendly calendar interface
- USB or XCOM (wireless) connection
- Also compatible with E124 electronic equipment





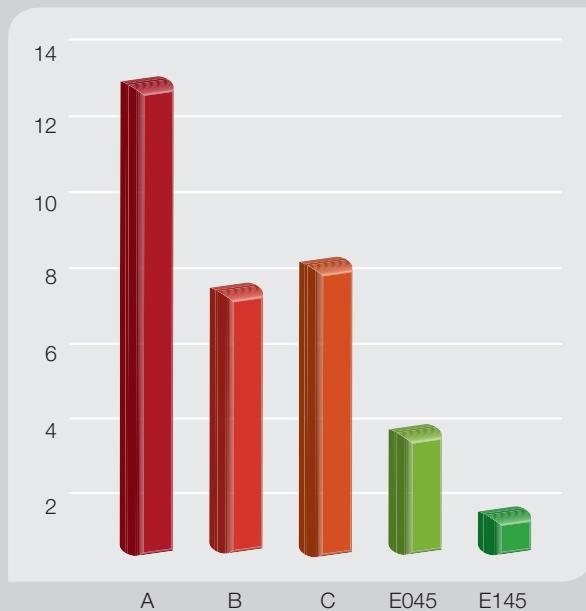
# Save energy, gain performance.



## COMPARISON WITH THE TRADITIONAL 230V BOARDS ON THE MARKET.

Test conditions: control board for 230V in standby, 2 pairs of photocells, radio receiver on board. Data resulted by laboratory test.

### STANDBY POWER (W)



## Energy savings calculation for a 230V residential automated system with 2 leaves equipped with the new FAAC boards.

### Hypotesis: Italian Residential Energy Price = 0.20 €/KWh\*\*

	E045	E145
<b>Standby saving*</b>		
W saved/hour	9	11,4
KWh saved/day	0,22	0,27
<b>TOT KW/h saved/year</b>	<b>79</b>	<b>100</b>
<b>TOT Kg CO<sub>2</sub> avoided/year**</b>	<b>42</b>	<b>53</b>
<b>Money saved/year</b>	<b>16 €</b>	<b>20 €</b>

\* Standby energy saving is calculated with respect to case A, under the previously described conditions.

\*\* The residential energy price and the conversion factor from kWh to kg of CO<sub>2</sub> are provided by the Italian Ministry of Environment: could vary depending on the installation Country.

## Technical specifications

	E045	E145
Board and motor power supply voltage	230V	90V ÷ 260V
Reverse on contact feature (with SAFEcoder Absolute Encoder)	•	•
Energy efficiency (switching power supply)	•	maximum
Automatic setup	•	•
Display	LED	LCD
Available logics	7	10 customizable
Electronic deceleration	•	•
USB drive functions (SW update, data backup)	•	•
2Easy BUS	•	•
Connectivity (X-COM/G-COM/NET-COM/Wi-COM)		•
Programming via PC/MAC		•
Integrated timer		•
Electric lock outputs	1	2
Limit switch inputs		•
Programmable inputs/outputs		•
Radio receiver type	Omnidec	Omnidec e RP
Transmitters can be memorised on board	256	1,600
Photocell inputs	Only BUS	BUS and traditional
Sliding gate operator management		•



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