



ED 100 ED 250

Modular swing
door operators

dormakaba 

Contents



04 ED 100 and ED 250 – configurations for various door applications



06 The modular system



08 For accessible entrances



10 For fast operation



12 For fire doors



14 For controlled access



ED 100 and ED 250 – made to measure configurations for various door applications.

Individual upgrade packages to meet almost any requirement.

From user to solution.

The field of application mainly determines which features the swing door operator requires. For accessible entrances or fast operation, at fire doors or as an access control system – requirements vary in line with the prevailing conditions. With the ED 100 and ED 250 swing door operators, dormakaba provides a modular system whose components can be combined in various ways to facilitate planning.

Our principle.

Two basic operators whose only difference is their performance. The field of application determines which additional features the operator needs and then the basic system can be upgraded as required. With different covers and arm versions, dormakaba offers operators in a uniform and slender design with a height of only 70 mm – for both single- and double-leaf doors in various configurations.

Our philosophy.

As parts of your buildings, doors and the corresponding operators represent your company. In everyday business, the ED 100 and ED 250 swing door operators excel with intelligent functions, which may respond to user behavior and typical changes within the door's environment. dormakaba supports you with sophisticated operators in a slender design and with a broad range of functions.

The modular system.

1 Operator
A compact and powerful unit.



2 Cover
Slender Contur design.



3 Upgrade cards
Additional functions as required.



4 BRC radio system
Easily operable via pushbutton.



5 ED ESR
Integrated door coordinator.

The modular system in detail.

Module

<p>1 Operator A compact and powerful unit.</p>	<p>Choose one of the following operator systems according to your individual door-leaf parameters:</p>	<p>ED 100 EN 2–4 for door widths of 700 – 1,100 mm and a maximum door weight of 100 kg.</p>	<p>ED 250 EN 4–6 for door widths of 700 – 1,600 mm and a maximum door weight of 250 kg.</p>
<p>2 Cover Slender Contur design.</p>	<p>Choose one of the following cover options according to your individual requirements:</p>	<p>Basic (silver-colored/white/special color) cover for single-leaf door systems. Or: Vario (silver-colored) Center piece with cover to mask the cutting edge, to facilitate double-leaf door systems or to extend one side of the Basic cover. Or: Professional (silver-colored/white/special color) Seamless cover for extended single and double-leaf door systems.</p>	<p>The operator cover is sold separately, not together with the operator system, and can thus be ordered individually. We provide a mounting plate with cable channels to facilitate the cable laying process within double-leaf door systems.</p>
<p>3 Upgrade cards Additional functions as required.</p>	<p>Plug-in modules to upgrade the operator system with additional functions:</p>	<p>Upgrade card – Full-Energy High performance for fast operation. Upgrade card – Fire Protection For enhanced safety in case of a fire.</p>	<p>Upgrade card – Professional Designed to open the leaves of a double-leaf door either individually or simultaneously and to extend the adjustable hold-open time. Upgrade card – DCW Centrally managed access control system. Additional function(s) via plug-in module.</p>
<p>4 BRC radio system Easily operable via pushbutton.</p>		<p>BRC-R receiver The receiver can easily be integrated in the standard operator. BRC-H hand-held transmitter Bi-directional system in new design.</p>	<p>BRC-W wireless wall transmitter (pushbutton-type) Extra slim design, suitable for surface mounting. BRC-T transmitter Easy installation in commercial pushbuttons.</p>
<p>5 ED ESR Integrated door coordinator.</p>		<p>ED ESR set Integrated door coordinator, easy mounting and maintenance-free operation.</p>	



Benefits



- Less influence from weather conditions on the door's operating behavior**
 The wind load feature dynamically changes the door's operating parameters in the opening and closing direction to reduce effects caused by weather or pressure fluctuations.
- Reliable – even at low temperatures**
 Initial Drive Control IDC for enhanced functional stability – especially in cold environments. The system detects wear-related irregularities in the door's driving behavior and reduces their negative effects.
- Flexible configuration**
 Thanks to the system's modular design, customers only pay for the functions they actually require.
- Reliable at heavily frequented doors**
 The TMP Temperature Management Program controls the performance of the operator system in line with the prevailing forces. This feature distinctly helps to avoid operator overloads at heavily frequented doors and extends the system's life cycle.
- Elegant design**
 Cover in dormakaba Contur design with a projection height of just 70 mm.
- Suitable for sensitive areas**
 Low-noise application thanks to multi-stage gear.



1 ED 100 / ED 250 operator
A compact and powerful unit.

2 Basic cover
Slender Contur design.



ED 100 and ED 250 – for reliably accessible entrances and easy operation.

The attraction of brands and buildings is defined by their style of presentation. Therefore our solutions unite technology and design, with a focus on their field of application.

Because people matter.

People's perception of something can vary greatly from person to person; therefore they may perceive a door – and the required force to open it – as a barrier. Taking into account the individuality of users, dormakaba develops technical solutions that help to remove barriers.

Effortless manual opening.

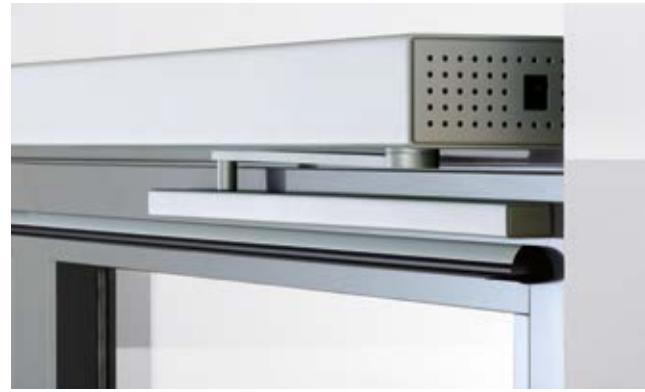
In door closer mode, ED 100 and ED 250 swing door operators are optimised for manual use. Cam technology provides easy manual access, with a further enhancement also available in the form of the Power-Assist Function. The opening forces meet the requirements of DIN 18040, DIN Spec 1104, CEN/TR 15894, BS 8300/2100 and document "M"; up to the maximum admissible door width and weight for the selected operator. In addition, users can open the door automatically via a pushbutton when the system is in door closer mode.

An accessible entrance makes a good impression.

In order to deal with the individuality of users, dormakaba has further improved the servo assist for swing door operators. The ED 100 and ED 250 detect how much force a user exerts on the door and adjust the required level of assist accordingly; this gives every user the positive feeling of entering the door effortlessly.



- 1 ED 100 / ED 250 operator**
A compact and powerful unit.
- 2 Professional cover**
Slender Contur design.
- 3 Full-Energy upgrade card**
High performance for fast operation.
Professional upgrade card
Flexible door-leaf control.



Standards, regulations, availability dates as well as available functions for the operators and modules may vary from country to country. The required and available equipment may thus differ from the examples shown and indicated in this brochure.

This system combines speed and low energy consumption.

A modern building should be fully operational at any time of the day or night and incur the minimum possible operating costs. Thus every process has to be well thought out. The ED 100 and ED 250 make a considerable contribution to this.

Reliable process support.

Processes and conditions within a building are as individual as people – sometimes fast and busy, then again rather slow and quiet. dormakaba therefore offers technical solutions with the ability to detect changing conditions inside buildings that help to improve process efficiency.

Fast operating cycles.

In the automatic mode, the operator is optimized for operation via motion detectors. Whenever doors have to move fast, the Full-Energy upgrade card is required to activate the full performance range of the respective operator and to increase the adjustable opening speed. Inside buildings, variations in temperature affect the door's

operating behavior. Here, the IDC Initial Drive Control dynamically adjusts the force parameters to prevailing weather conditions.

Functional flexibility.

With the Professional upgrade card you can either just activate the active leaf or both door leaves of a double-leaf system – thus you only consume the amount of energy you actually require. If doors have to remain open for more than 30 seconds or whenever an individual control is required, you can use the Professional upgrade card to increase the adjustable holdopen time by up to 180 seconds, while the flip-flip function enables you to open door leaves permanently and to close them again. No matter how flexible your system needs to be, the integrated functions of the upgrade cards will help you to achieve the desired functionality.



1 ED 100 / ED 250 operator
A compact and powerful unit.

2 Professional cover
Slender Contur design.

3 Fire Protection upgrade card
For enhanced safety in case of a fire.

5 ED ESR
Integrated door coordinator.



Where safety and fire protection are part of the business.

People rely on us. Whenever many people are in a building at the same time, safety and functionality are of critical importance.

A reliable part of the system.

Every component has to work properly to ensure the reliable functioning of the system. Doors play an important part when it comes to coordinating the ingress and egress of visitors and ensuring the safety of the building. During standard operation, doors must close reliably and still be easy to open in the event of an alarm. With its ED 100 and ED 250, dormakaba provides solutions to improve the safety of buildings.

A powerful operator.

Thanks to its wind load feature, the system will support the door during its closing cycle. While adjusted to the automatic mode, the operator recognizes and compensates wind loads up to the admissible force limit of 150 N. In addition, the electronic latching action helps the door to latch shut. The operators are also well prepared in case of an alarm. If a hold-open device with the Fire Protection upgrade card is selected or as part of the building management system, the operators are ideal for application in emergency exits and escape routes.

A combination of functionality and design.

The mechanical door coordinator ED ESR for double-leaf doors is maintenance-free and ensures that rebated doors close in the correct order. In addition, all components are concealed behind a cover of the dormakaba Contur design with a height of only 70 mm.

Standards, regulations, availability dates as well as available functions for the operators and modules may vary from country to country. The required and available equipment may thus differ from the examples shown and indicated in this brochure.



- 1 ED 100 / ED 250 operator**
A compact and powerful unit.
- 2 Professional cover**
Slender Contur design.
- 3 DCW upgrade card**
Centrally managed access control system.
- 4 BRC radio system**
Convenient access at the touch of a button.



Reliable access control – for numerous rooms.

Sometimes you need to be alone to achieve something great. In many buildings, controlled access to rooms is therefore a basic requirement for door control systems.

Reliable locking is a matter of trust.

There are various reasons to lock rooms and control access. No matter what is important to you, you rely on the installed components. This is why dormakaba uses matching parts, ensuring that each solution has all the merits of single-source supply.

Controlled security.

The DCW upgrade card allows you to connect dormakaba motor locks directly with the DCW interface. Thanks to the easy Plug&Play installation of dormakaba motor locks, only a few cables have to be connected while almost automatic parametrization ensures safe operation. In addition, the wind load feature supports the reliable closing behavior of the door system. In the event of a malfunction, the system sends the status of the door system to the security systems of the building so that the security staff will be able to respond specifically to the prevailing situation.

Wireless door management.

You can also link the bidirectional dormakaba BRC radio system to the ED 100 and ED 250 swing door operators. We have provided an interface in order to facilitate the installation of the BRC R radio receiver inside the operator. Apart from reliable 4-channel BRC H hand-held transmitters, dormakaba also offers fl at BRC W wireless wall transmitters and a built-in wireless transmitter for installation in pushbuttons from other suppliers. All components of the BRC radio system allow fast and easy installation without additional cables. Just activate the pushbutton and the operator will perform the desired function.

Standards, regulations, availability dates as well as available functions for the operators and modules may vary from country to country. The required and available equipment may thus differ from the examples shown and indicated in this brochure.

