

REAL BEAUTY



IS IN THE SYSTEM



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2019

**EATON**

*Powering Business Worldwide*

# PROVEN QUALITY. INNOVATIVE SYSTEM.

Even tried-and-tested systems can continue to be perfected – that is why Eaton has added a series of new and innovative components to its RMQ family of pilot devices. A flush design, excellent ergonomics, and a wide variety of practical functions are just some of the features that open up a whole new world of possibilities.



## New design ensures greater efficiency

Whether on operating panels, pendant stations, or control panels: Eaton RMQ-Titan pilot devices are the machine manufacturing and panel building industries' number one choice. There is good reason for this, as the company continues to invest heavily in research and development, making sure that its product portfolio continues to meet all the requirements involved in safe and efficient work.

## Flat, ergonomic, functional

First impressions are important, and when it comes to modern machinery, pilot devices are what leaves that first impression. That is why RMQ-Titan components combine a smooth appearance with unrivaled ease of use, ensuring that machines can benefit from an elegant industrial design. In fact, the latest additions to the RMQ series are a perfect example of this, as can be seen in their ergonomic design with concave pushbutton elements shaped with fingertips in mind, heavy-duty devices that can withstand exposure to dirt and water, and new flat front elements with a diameter of 30 mm and a stylish.

## Custom front elements

Eaton's modular system makes it possible to select the right front element dimensions, materials, and colors for any application.

## Customized laser inscriptions

Texts, symbols, special characters, formulas, shapes, and logos – a customized laser inscription for your company or machine can be added to any button plate, indicator light, or add-on legend plate in the RMQ range of pilot devices. Unlike with printing, the information is engraved, ensuring that it will be permanently legible and wear-resistant.



The RMQ-Titan family is growing:  
Please be assured that existing  
and new products are compatible  
with each other.

## The RMQ system: versatile and efficient

- Modular front elements with a broad variety of fronts, bezels, colors, and functions available for selection
- Contact elements for a large number of applications
- Compact devices (RMQ compact solution) to be used directly on machines.
- Emergency stop buttons designed to ensure functional safety on machines and systems
- SmartWire-DT™ for digital device communication within the RMQ family

# SLEEK LOOK. COUNTLESS DETAILS.

A premium design and state-of-the-art operation – the new front elements of the RMQ-Titan range are not just sophisticated, but also robust and functional. The RMQ AFX mounting module is a perfect addition to the RMQ family thanks to its easy installation.



## Stylish machine designs

Pilot devices with a sleek design are a reflection of the quality behind the systems and machines they are installed in. They are a key component of a machine's overall appearance. The new metallic fronts, either chrome-colored or in stainless steel, are the perfect fit for innovative machine concepts. The flat construction behind the new RMQ front elements not only makes them easy to clean, but also ensures that they are highly resistant to wear and vandalism.

The innovative RMQ Flat Front models can be combined with RMQ-Titan and RMQ compact solution, providing great flexibility when it comes to designing machines. RMQ Flat Front products feature high degrees of protection of up to IP69K and international approvals.

## Portfolio

- Chrome-colored or in stainless steel
- (Illuminated) pushbutton
- Indicator light
- Key operated button
- Selector switch actuators
- Joystick- and USB variants
- Potentiometer
- Encoder
- Turn- and push function



Looks good and fits into modern machine concepts with 30 mm diameter.



The new RMQ AFX mounting system, which adapts automatically to different sheet metal thicknesses, makes installation faster and more reliable.

## Perfect fit. Easy installation.

All RMQ Flat Front devices use the highly sophisticated RMQ AFX mounting system, ensuring a secure fit and easy installation. In fact, both versions (anti-rotation tab with notch and anti-rotation tab without notch) will stay perfectly in place. When the latter is used, the straight edges of the rear mounting block make it possible to slightly adjust the device. Finally, when the knurled nut is tightened, a spring element simultaneously ensures that the assembly will automatically adjust to the sheet metal thickness.



## RMQ AFX mounting system

- Anti-rotation tab for perfect fit
- Flexible installation
- Easy alignment
- Automatically adapts to the sheet metal thickness

# SMALL SIZE. LARGE VARIETY.

The RMQ Flat Rear contact elements save space with a mounting depth that is over 33% smaller than standard, providing valuable space at the back. Further advantage of the innovative multi-color elements is their ability to display seven different colors with a single pushbutton.



One pushbutton, seven different colors – the new RMQ Flat Rear multi-color elements (RGB) make it possible.

## Designed with space and compatibility in mind

The mounting depth for RMQ Flat Rear LED and contact elements has been reduced to a mere 30 mm. This slim design is particularly advantageous when it comes to machines with separate control terminals (e.g., pendant arms), as well as in any application with very little space available at the back of a machine. All RMQ Flat Rear elements are compatible with the modular front elements and emergency stop devices in the RMQ-Titan family, ensuring that flat combinations can be consistently used at the front and back of machines.

## Multi-color = multi-function

Effective immediately, rear LED elements are available with dual-color elements (red/ green) and multi-color elements (RGB). This means that it is now possible to have seven colors with seven different functions on a single pushbutton, all defined according to your specific needs.

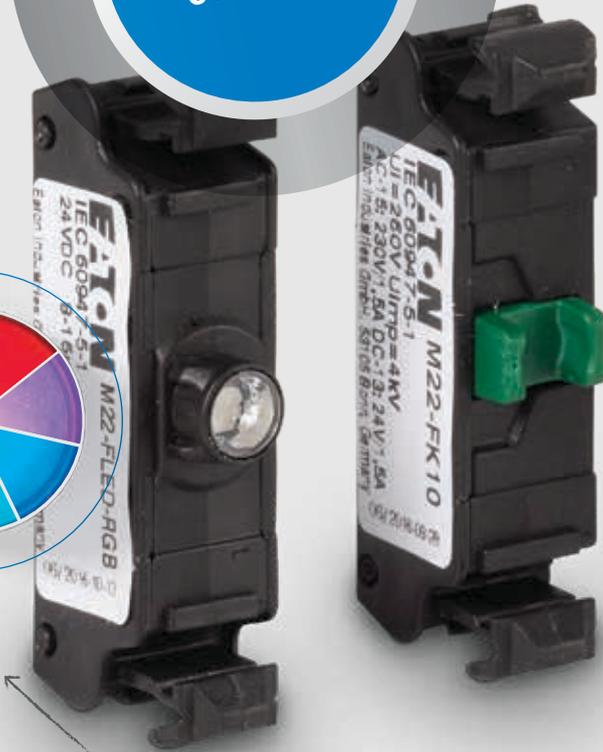
This not only enhances safety – by using the color red as an indicator, for example – but is also pretty ingenious, as it allows a single indicator light to always display current machine statuses when used together with the new multicolor elements.

## Portfolio

- For applications within a range of 5 V to 500 V
- Available with screw terminals and spring-clamp terminals
- For front and base fixing
- Can be used worldwide thanks to numerous approvals
- Positive opening ensures that these elements can also be used for safety-relevant applications

Whether with a flat or traditional design, RMQ contact elements can be used and combined as necessary.

Pretty compact



30 mm mounting depth



45 mm mounting depth

NEW

### Bright - Brighter - High Performance LEDs

The new Flar Rear High Performance LED elements for even brighter and more luminous colors.



# MODULAR SYSTEM. MAXIMUM FLEXIBILITY.

The new RMQ Flat Enclosure is not only the smallest surface-mounting enclosure of its kind - it also turns a necessary component into a stylish design element for any machine or system. Together with the RMQ Flat Rear electromechanical contact elements and the modular RMQ range, the new enclosures ensure maximum flexibility across countless application areas.

## Flexible and modular

The RMQ Flat Enclosure is equipped with electromechanical contact and LED elements from our RMQ Flat Rear range.

The modular system ensures maximum flexibility. The result is a flat and innovative design that integrates smoothly into any machine or system.

The enclosures can be quickly installed anywhere, whether it's a flat surface or a mounting rail. The maintenance-free terminals and the optionally tool-free connection technology save additional installation time.

And should the demands on the machine or system change, the contact and front elements can be easily replaced. The use of modular standardized elements guarantees consistently high availability.

## Versatility and comprehensive protection

Harsh environments pose no obstacle for the RMQ Flat Enclosures - the high degree of protection (IP66, IP67 or IP69) ensures a long lifespan, making the devices suitable for a broad range of applications, anywhere in the world.

The RMQ Flat Enclosures can be combined with almost all RMQ-Titan elements. The Flat Rear multi-color (RGB) and dual-color (red/green) LED elements contribute to intelligent machine operation and enable the customized visualization of various machine conditions.

## Multiple versions are available

The surface-mounting enclosures with up to four mounting holes are designed to be used in conjunction with the RMQ M22 or M30 front elements. It is even possible to combine M22 and M30 devices within a single enclosure.

The modular system enables a broad range of applications, including indicator lights, pushbuttons, key-operated pushbuttons, selector switches and emergency-stop buttons.





Amazingly flexible.



**Yellow & red = safe: Emergency-stop button**

The yellow surface-mounting enclosures with emergency-stop button are a simple and smart alternative for use in safety-related applications. They are approved for use in emergency-stop applications, together with the flat, positive-opening contacts. The eye-catching yellow color makes the pushbutton immediately visible.

# COMPACT SOLUTION. HEAVY-DUTY COMPONENTS.

The convenient all-in-one RMQ compact solution integrates the required cable, connector, and housing in one single device. The high degrees of protection in the front (up to IP69K) and at the back (IP65) of these devices make them the perfect choice for applications in which protection from dirt or liquids is required.

Pretty  
heavy-duty  
and simple



All-in-one: Safety, ergonomics, efficiency

## Guaranteed safety

RMQ *compact* solution elements meet the requirements inherent to industrial environments with harsh conditions. Their high degree of protection – up to IP69K in the front and IP65 in the back – ensures that they can be installed next to control panels, as well as directly inside machine rooms.

## Guaranteed efficiency

Easy plug-and-play installation is made possible by the devices' compact design. In addition, each compact device requires only one single article number. It considerably simplifies all the processes from selection, through ordering and stock-keeping, all the way to the installation.

## Guaranteed robustness

The special housing provides protection against dust, water, cleaning products, and fine foreign particles, making these devices perfect for direct installation, e.g., in woodworking machines or other machine tools in which direct contact with fine dusts or liquids needs to be prevented. On top of this, an IP69K degree of protection ensures that front elements such as pushbuttons, illuminated pushbutton actuators, indicator lights, and emergency stop buttons can all be cleaned with pressure washers and steam jet devices – making them ideal for environments with stringent leak tightness and hygiene requirements.

## Guaranteed versatility

These compact devices are available with cable lengths of 20 cm, 50 cm, 1 m, and 3.5 m. Moreover, both pre-configured cable connections with M12 or M8 plugs and cables with unterminated ends are available. The pilot devices will emit light non-stop for over 100,000 hours, which, combined with special lenses and color LEDs, ensures that the reliability of your applications will be maximized for the long term.

## The compact emergency stop solution for harsh environments

RMQ *compact* solution emergency stop buttons: The best alternative when devices need to be used for remote emergency stop function purposes. With their high degree of protection in the front and at the back, these buttons are perfectly protected from dirt, dust, and liquids.



### Easy to connect

The RMQ compact products can be easily connected to a distribution panel or an I/O box. With the help of the M12 connector, the devices can be easily connected and integrated into the existing communication interface.



# PERFECT PROTECTION. VERSATILE USE.

Operate, signal, and switch with absolute safety: globally proven emergency stop buttons ensure that people, machines, and systems are thoroughly protected. Eaton offers just the right components for every application, from key-operated models to models with illuminated rings.



## Stop at the push of a button

The emergency stop buttons in the RMQ-Titan range guarantee the functional safety of machines and systems by immediately stopping them when pressed in hazardous situations. These emergency stop buttons can be used for most applications while simultaneously complying with DIN requirements. In order to guarantee a maximum level of safety, all emergency stop devices are tamper-proof and equipped with positive opening contacts.

The self-monitoring contact elements ensure extensive operational safety; even with a faulty installation or after excessive force is used for actuation. To this end, the modular contact elements not only feature an emergency stop N/C contact, but also a second contact used to monitor the mechanical connection with the emergency stop operator.

**Small button,  
big effect**

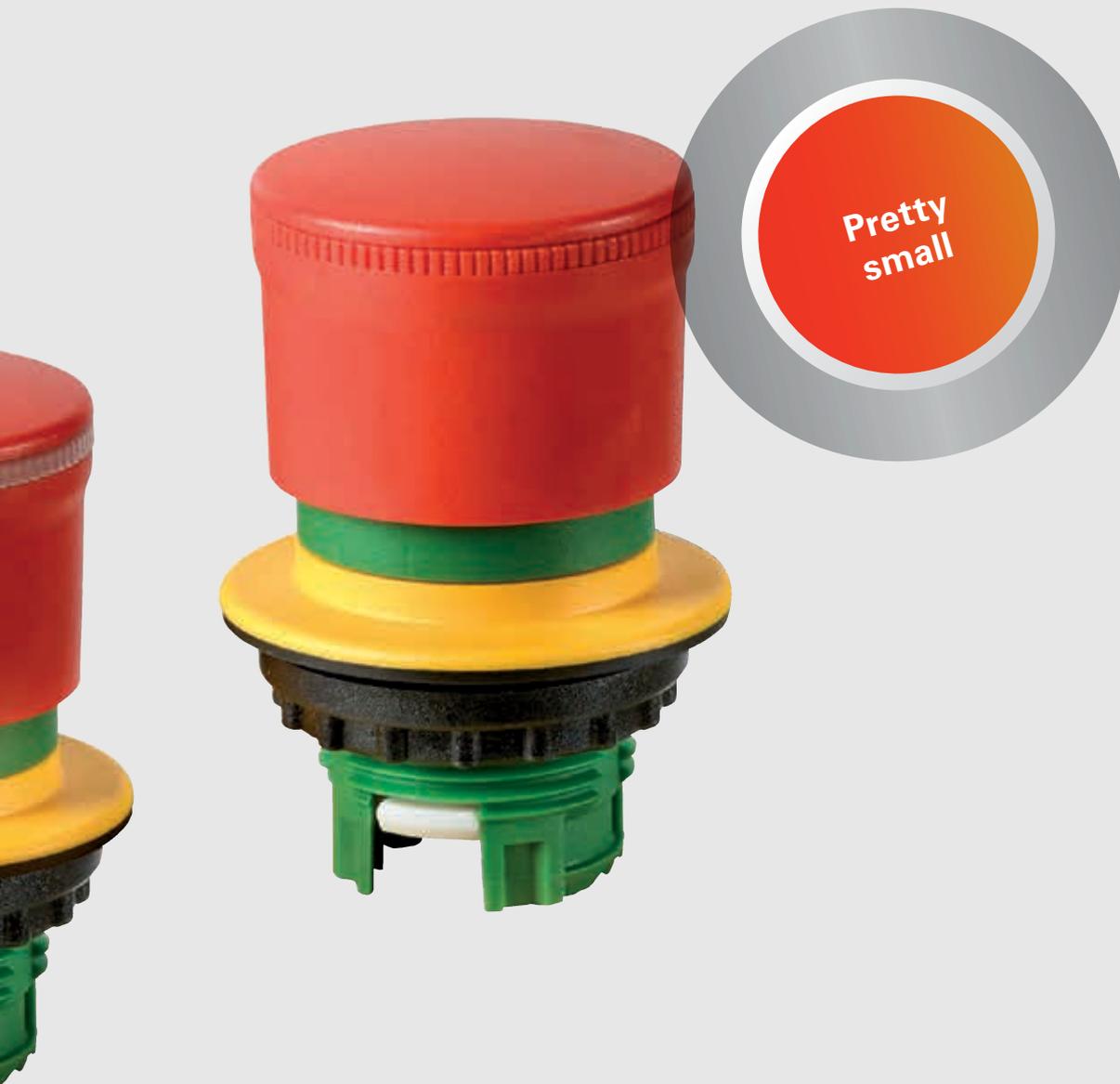
2019  
available

Our new small emergency-stop button stands out for its innovative illumination system and the compact, space-saving design. The use of LED elements makes it possible to clearly identify the machine status from all directions and in any situation. Thanks to their high degree of protection, both the 22 mm and the 30 mm versions of the compact emergency-stop button are ideally suited for use in harsh environments.

## Illuminated rings for conspicuous signaling

The optionally available illuminated ring – with a solid, flashing, or chaser light – ensures that personnel will be able to see and find emergency stop buttons quicker in the event of an emergency. Even in dim environments, the ring will clearly show the buttons' position in a visible manner, as it is designed to reliably indicate operating states even at large distances. When tripped, for example, it is possible to activate three separately controllable LED rows as a running light.





## The right components

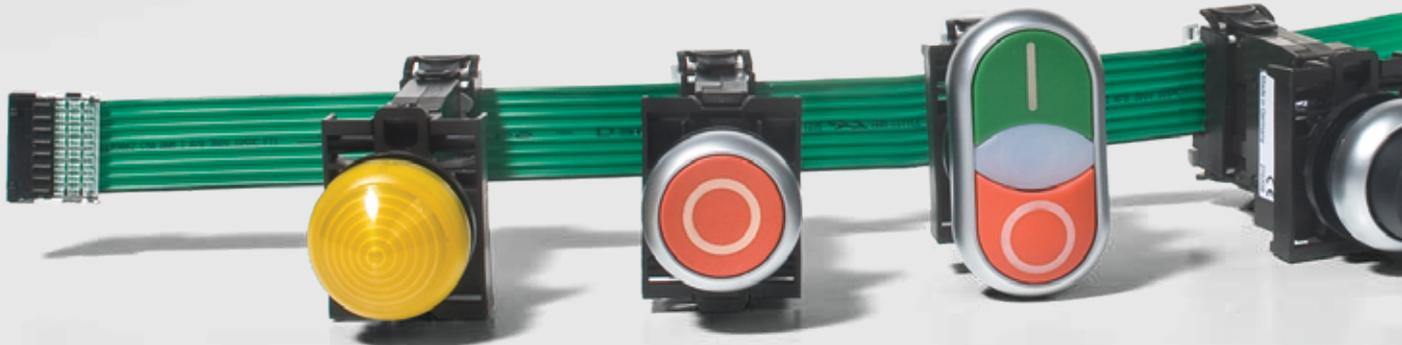
- Mushroom shape with a diameter of 38 mm and palm shape with a diameter of 45 or 60 mm
- RMQ emergency stop / controlled stop buttons with a degree of protection of IP67, IP69K feature a tamper-proof design as defined in EN ISO 13850 and meet all applicable European and international safety standards
- Ship classification from Germanischer Lloyd and Lloyd's Register of Shipping
- Certified by the professional association or TÜV
- Can be used as heavy-duty RMQ *compact* solution for remote emergency stop operation



The self-monitoring contacts are now also available with a mounting depth of 30 mm.

# EASY INTEGRATION. SMART COMMUNICATION.

SmartWire-DT provides the pilot devices of the RMQ family with communication capabilities, ensuring greater efficiency in all processes. In addition, Eaton has developed new potentiometers and encoders designed to make input and adjustments easier.



## Less work, more efficiency

When it comes to complex environments with a large variety of pilot devices, there is simply no better choice than SmartWire-DT. The system not only reduces the time-consuming work and complexity involved in wiring, but also minimizes sources of error and maximizes diagnosability. Moreover, its distributed intelligence and standardized communication with all devices is designed to make work significantly more efficient. To put it simply, this innovative communication system for industrial switchgear and automation components in control panels and peripherals makes it possible to plan, engineer, test, service, and operate electrical systems much faster.

## Connect don't wire

The RMQ family can not only be used with standard wiring, but can also be easily integrated into automation architectures via standard bus systems. More specifically, integrated M12 and M8 plugs can be used to connect the complete devices directly to field buses such as AS-i or to SmartWire-DT.

## Potentiometer values available right away

RMQ SWD potentiometers can be used to quickly and easily make analog adjustments with SmartWire-DT systems. More specifically, these potentiometers are designed to replace conventional analog potentiometers, including all the corresponding interfaces, such as a power supply and peripherals for reading analog values. Moreover, they provide expanded diagnostic functions. To top it all off, the SmartWire-DT system ensures that potentiometer values will be available right away.

## Scroll, set, confirm

RMQ SWD encoders are revolutionary when it comes to input for industrial applications: when combined with a touch panel, these encoders can be used to scroll as necessary through the screen menu, set setpoint values, and, thanks to an integrated click function, apply settings immediately with a simple hand motion.

Pretty  
clever



Direct connection to SmartWire-DT:

The green ribbon cable connects pilot devices  
via the integrated M12 plug.

# EASY TO CONFIGURE. COUNTLESS COMBINATIONS.

Easy to select, configure, and order. The new online tool provides a quick overview of all the pilot devices in the RMQ-Titan series and the numerous combination options available. With its intuitive user interface, the Configurator is the perfect way to find out what the right solutions for your specific needs are.

## Easy to select, configure and order

Once the individual components have been selected, the configurator will display the final product as assembled. Even tailor-made complete devices are easy to configure. Once the pilot devices have been configured, ordering the relevant components is simple, thanks to the automatically generated parts list.

A unique ID clearly identifies each configuration.

## Custom labels

The integrated Label Editor function can be used to order customized inscriptions and specific designs for pilot devices directly in the Pushbutton Configurator, making it possible to customize individual devices as needed.

To use the Eaton Pushbutton Configurator, visit: [www.eaton.eu/config/RMQ](http://www.eaton.eu/config/RMQ)

## Clear and simple product selection

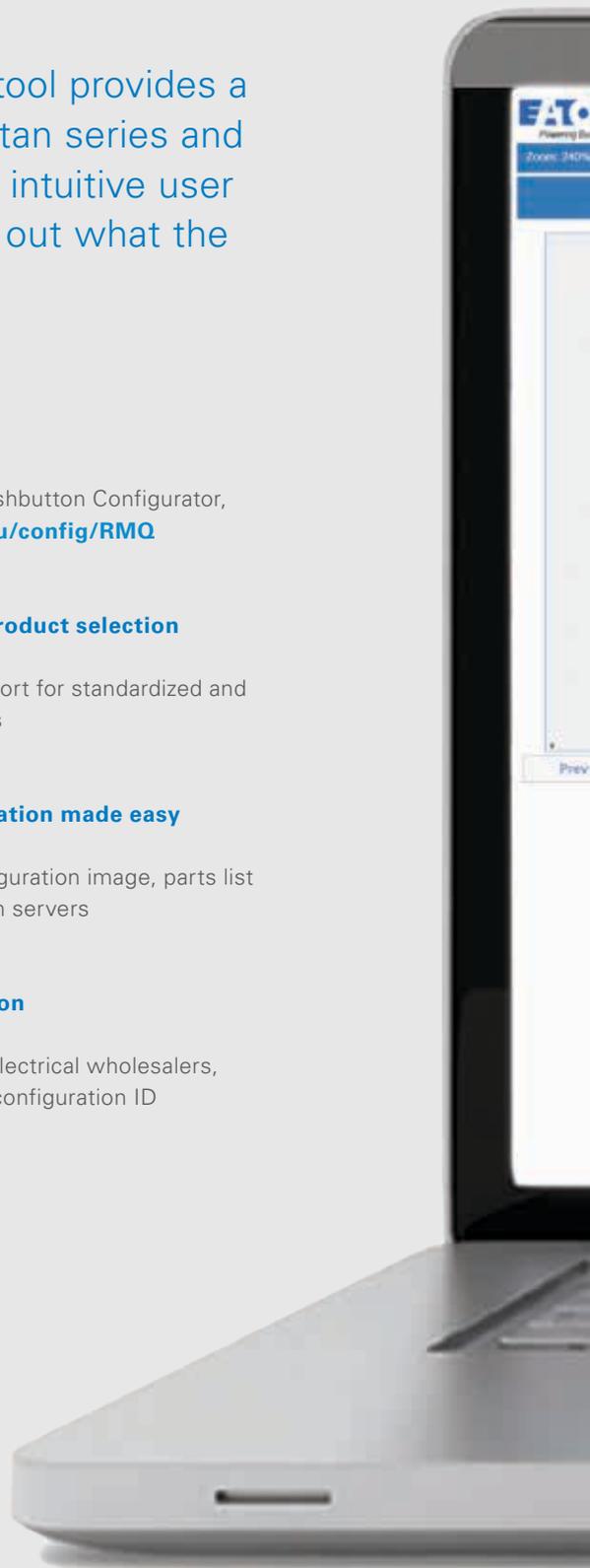
With intelligent support for standardized and tailor-made solutions

## Product documentation made easy

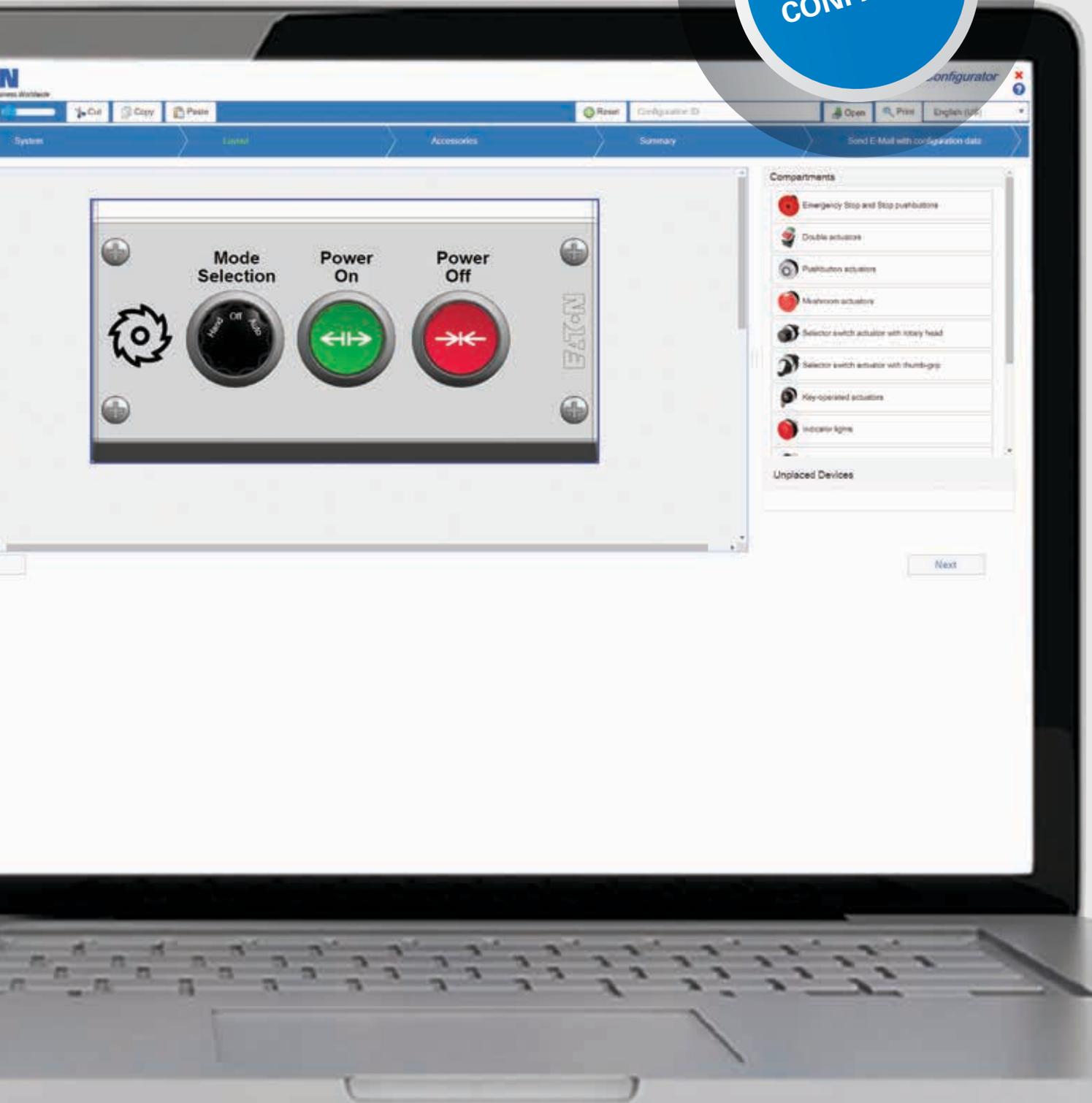
Complete with configuration image, parts list and storage on Eaton servers

## Unique identification

For customers and electrical wholesalers, thanks to a 16-digit configuration ID



EASY TO CONFIGURE



# ONE FAMILY. ENDLESS POSSIBILITIES.

A sleek design and innovative controls are two of the latest RMQ innovations that will first catch your eye. The most stunning thing about Eaton's expanded pilot device range, however, is what is behind it: the extremely broad variety of possibilities offered by the RMQ family.

## Numerous options available for selection

Flat or traditional, with an LED or without one, dual-color or multi-color – your specific needs determine which characteristics are best for your machine design.



## The perfect combination of design and engineering

Pretty on the outside, smart on the inside – that is the combination that characterizes Eaton's industrial designs.



## Modern operating convenience in harsh industrial environments

RMQ potentiometers, encoders, and joysticks with a sleek Flat Design can be easily and comfortably operated while wearing gloves and are designed for extreme ambient conditions.



# PRODUCT OVERVIEW. SORT AND SWEET.

## RMQ Titan command & signalling devices

RMQ Titan - classic (M22...)



RMQ Kontakt-/ LED-Elements (M22...)



RMQ Flat Front (M30...)

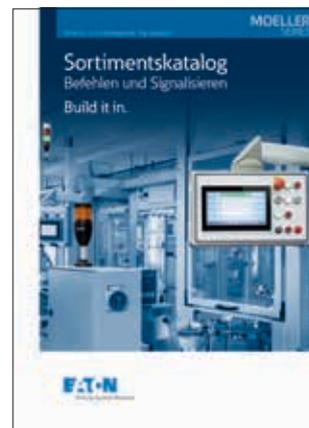


RMQ compact solution (C22... / C30...)



## New and time-tested elements can be combined freely

Flat Front Design in the front, old contact element  
behind... or old front with a flat element behind –  
everything is possible with RMQ.



For additional information, please consult the "Command and  
and Indication" product range catalog or our online catalog.

[www.eaton.eu/catalogs](http://www.eaton.eu/catalogs)

Eaton is dedicated to ensuring that reliable, efficient and safe power supply is available when it's needed most. With unparalleled knowledge of electrical power management across industries, experts at Eaton deliver customized, integrated solutions to solve our customers' most critical challenges.

We are focused on always finding the right solution for every application. But, decision makers demand more than just innovative products. They turn to Eaton for an unwavering commitment to personal support that makes customer success a top priority.

For more information, visit  
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You can find a list of our customer support team at  
[www.eaton.eu/contactus](http://www.eaton.eu/contactus)

**Eaton Industries GmbH**  
Hein-Moeller-Str. 7-11  
D-53115 Bonn / Germany

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