



## easyE4 control relay



[Download the easyE4 brochure](#)

The easyE4 generation of control relays is ideal for users looking to implement control tasks with as little effort as possible. Thanks to its ease of use, the easyE4 can be used to implement both simple control tasks and more complex configurations with high process efficiency. The devices are available with different voltages, which makes them suitable for use in many different applications.

The base devices come with powerful hardware, flexible expansions and extensive communication and visualization options, while the Ethernet interface gives users access to the Internet of Things (IoT).

In conjunction with the intuitive programming software easySoft version 8, which, among others, supports four different programming languages, the easyE4 offers a smart package for quick and easy programming.

 [Get more information](#)



### State-of-the art communication

Via the integrated Ethernet interface, the easyE4 can be easily integrated into modern automation structures. Bidirectional communication with devices in the field is also possible via the integrated Modbus TCP communication and the SmartWire-DT module. Client and server operation can be selected for Modbus TCP communication. Via the Modbus RTU serial interface, devices can be connected or data sent from/to higher-level control systems as master or slave operation using an additional module.



### Flexible visualization and remote access

With the integrated web server, the contents of the easyE4 can be easily accessed on all mobile devices, such as smartphones or tablets. The WebEditor included in easySoft can be used to create user-defined websites which can then be downloaded to the easyE4 web server. In addition, the integrated web server enables automated notification by e-mail in the event of a malfunction and it can also be used to control your system. Furthermore, it is also possible to exchange data via JSON API. The easyE4 also has an integrated cloud connection to Amazon Web Services (AWS). This offers maximum security thanks to certificates and hardware-based encryption.



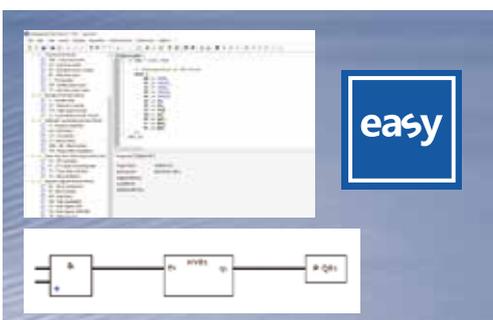
### Flexible visualization - on site and remotely

Visualizing information and accessing the easyE4 is now even easier. With the easyE Remote Touch Display (RTD) standard, you can either mirror the content of the easyE4 display as a classic door display and operate it using the on-screen keyboard or use the RTD Advanced to create a visualization using easySoft - in the style of the predecessor MFD Titan. Alternatively, the web server can provide a user-defined website, which can be accessed from the browser of a PC or web panel. This provides a flexible and easy way to display data and operate the easyE4.



### Flexible expansions and installation

Available as DC, UC and AC versions, the easyE4 base devices and expansion modules are ideal for use in various industrial and building applications. The base devices can be expanded by up to 11 modules and communication modules. The different voltage types can be combined without any limitations. Thanks to the intelligent plug connector, connecting or replacing individual expansion modules is easy. In addition, the extension modules can be marked as optional during project planning in easySoft in order to support even more flexible projects.



### easySoft version 8

easySoft version 8 offers four programming languages – LD, EDP, FBD and ST – alongside helpful new function blocks such as interrupts or alarm modules, which together ensure the smooth operation of any application. The programming software contains many new functions that have been designed with users' needs in mind in order to save valuable time during the programming process.

# Tailored to your requirements



## The devices are multi-functional, which simplifies planning

The easyE4 combines multiple functions, such as logic and counting functions, in one device. This significantly reduces the time required for planning new projects. In addition, the control relay closes the gap between the various relay types and a small controller. The compact easyE4 range also simplifies ordering, warehousing and maintenance.



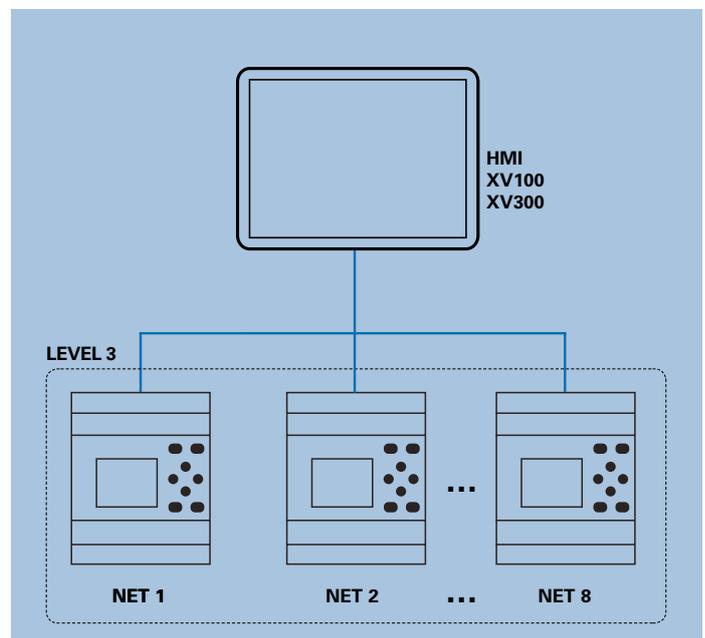
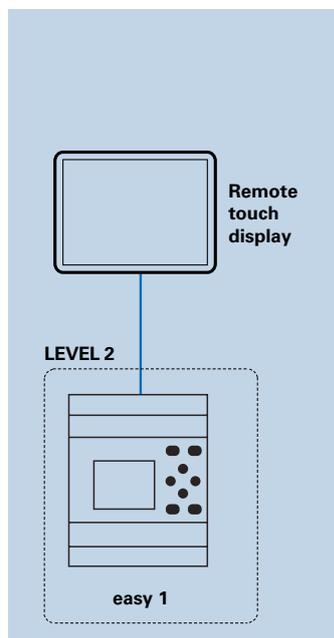
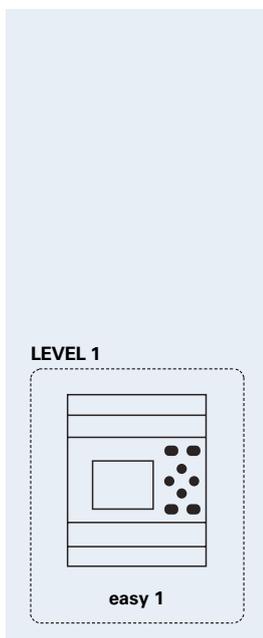
## Programming and commissioning made easy

The easyE4 offers flexible programming options, either directly on the device or via the easySoft software from any PC. Users have a choice of four different programming languages. A micro SD card can be used to transfer the programming to new devices, which simplifies the commissioning of standardized machinery, for example.



## Quick and easy implementation during operation

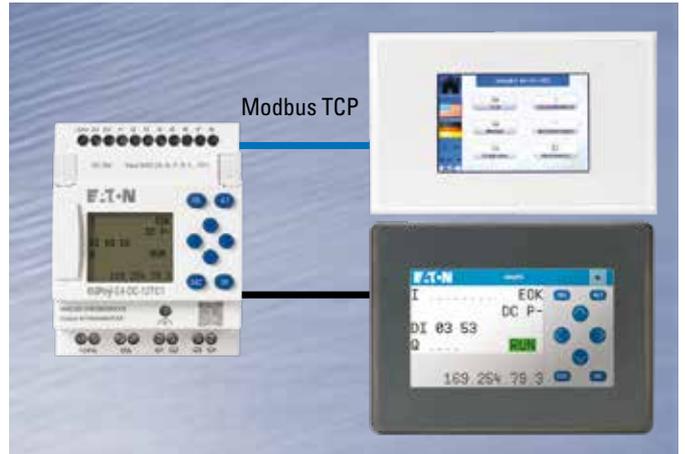
Many advantages of this powerful control relay become apparent during operation: Thanks to the interrupt functions, the easyE4 achieves fast response times of less than 2 milliseconds. The DCF77 synchronization ensures high accuracy in time-sensitive applications. Using the device display for visualization allows for rapid detection of the operating states of both the base devices and the expansion modules. The operating parameters can be directly adjusted via the keys on the base device.



**Visualization via HMI and web server**

The easyE4 also offers multiple visualization options. Via the integrated web server, content can be retrieved from any internet-enabled device, such as a smartphone or tablet. Thanks to the Ethernet interface, projects can also be displayed, via Modbus TCP, on any HMI, for example on the XV100. Access rights can be individually assigned.

The easyE Remote Touch Display (RTD) offers a further visualization option as a plug & play solution. The contents of the easy base device are mirrored in color on the RTD Standard. Controlling your application remotely is just as easy - and all this without programming of the RTD!



**easyE4 solutions**

**Level 1:** Use of the easyE4 as a stand-alone device without a network connection for independent control and regulation tasks.

**Level 2:** As 1, but with use of the easyE Remote Touch Display for operation on the door of the housing - either for mirroring the display or with user-defined visualization a la MFD-Titan.

**Level 3:** As 2, but with up to 8 easyE4 base units in the easyNET network for communication with each other. Optional: Visualization via XV100/XV300 HMIs with Galileo visualization.

**Level 4:** As 3, but with native connection of the easyE4 to Amazon Web Services (AWS) with certificate-based, hardware-based encryption for maximum cyber security.

**Level 5:** As 3, but with an external IoT gateway for Eaton's own cloud connection - Brightlayer Industrial Machinery. With VPN function and setup wizard, this solution is particularly beginner-friendly!

**Smart control relays offer an alternative to PLCs**

Our white paper examines the question whether the latest generation of smart control relays can provide a future-proof and cost-effective alternative to PLCs when it comes to controlling machines of low to medium complexity.

