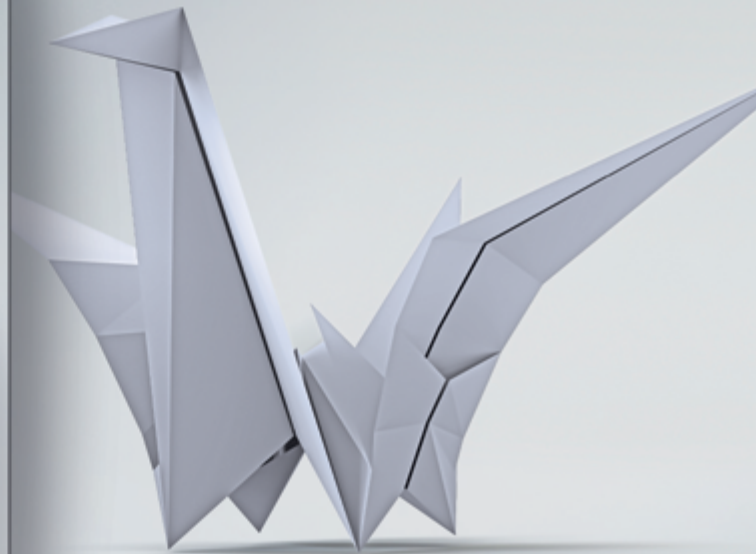


easyE4
One device,
many possibilities.



AI generated



25+
years
easy

A benchmark in the
control relay market
for over 25 years

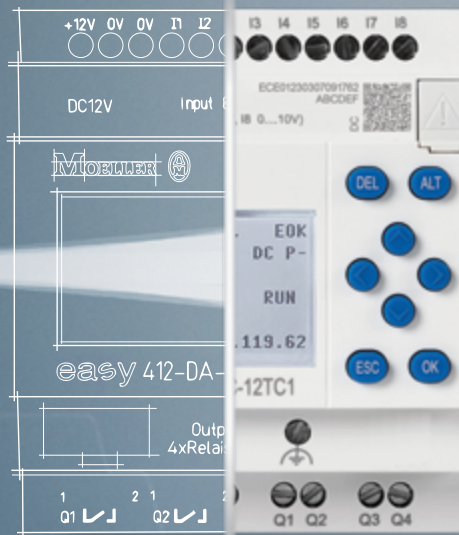
EATON

Powering Business Worldwide



25+
years
easy

1998



easyE4

More than a relay — A smart control hub for modern industrial control

The easyE4 control relay from Eaton's Moeller® series is designed for efficient and flexible control of small to medium applications. A wide range of communication and visualization options is available to ensure the highest flexibility within any application. The support of AWS and any other cloud services are additionally supporting the access of machine data where the easyE4 is installed as the control unit. The easyE4 now features seamless energy

metering for precise monitoring and greater efficiency which is enabled with the connection to the EMD3P energy measurement module. An accurate tracking of voltage, current, power, energy, and frequency within the easyE4 application is enabled — all that can be managed within easyE4 applications. This supports cost reduction as well as ISO 50001 compliance and the overall improvement of energy management.



Three different EMD3P energy measurement modules are available for 63 A up till 600 A.

easy features and functions

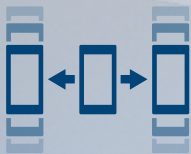
Timeless features



Four programming languages are available — easy Device Programming (EDP), Ladder Diagram (LD), Function Block Diagram (FBD) and Structured Text (ST), which aligns with IEC61131-3 and CODESYS standards to simplify programming.



The powerful Ethernet interface provides robust connectivity via easyNET and Modbus TCP, supporting communication modules for Modbus RTU as well.



The option to add a **communication module** and up to 11 I/O modules enables a wide range of applications.



An **API** is a programming interface commonly used in **Artificial Internet of Things (AIoT) applications**. The easyE4 includes an API that can be accessed through the provided link.

Latest update



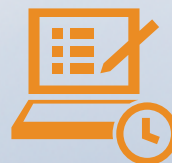
The transparency of energy consumption within the easyE4 application enables customers to optimize energy usage and reduce operational costs.



Generic MQTT Broker connectivity enables flexible local and remote data access as well as support of any cloud solution for cost-effective deployment.



Remote I/O via easyNET enables distributed control without programming effort of remote easyE4 units, streamlining setup and saving development time.



The enhanced web editor offers new widgets, improved usability, **flexible scheduling** and seamless timer block integration into visualization and programming.



Visualization options

The easyE4 includes an integrated display on the base device for standard visualization needs. For more advanced applications, remote touch displays — available in standard and advanced versions — can be added, with the advanced offering greater functionality. For highly sophisticated visualization, Linux-based XV...-1E4 devices deliver maximum flexibility.

Find out more on easyE4 visualization options



A hardware security module

securely stores information and encrypts all device communications using certificates, meeting the latest cybersecurity standards.

Find out more on the communication options of easyE4



More time for what really matters





The easyE4 control relay from Eaton's Moeller® series is now even easier and faster to use for a wide range of control tasks.

With integrated energy monitoring, direct connectivity to Amazon Web Services (AWS) and other cloud platforms via MQTT broker support, streamlined programming, and remote I/O access, the easyE4 boosts efficiency, ensures compliance, and reduces energy consumption—giving you more time for what truly matters.



A wide range of functions to simplify planning

The easyE4 covers various control applications in one device, from logic, timing relay and counter functions to an integrated timer and a proportional-integral-derivative (PID) controller.

The control relay can be easily extended by means of a communication module and up to 11 I/O modules, and the extensions for AC, DC and UC voltage can be mixed and matched as required.

Easy to use in every way – from project planning to maintenance

With its optimized product portfolio, the easyE4 supports you every step of the way — right from the planning phase of your project. From now on, you will benefit from more flexibility, more transparency and more time that you can devote to other tasks.

Programming tailored to your needs

The programming of the easyE4 is flexible and user-friendly, allowing you to work directly on the device or conveniently via the easySoft software.

There are four different programming languages to choose from, including updated structured text that aligns with IEC61131-3 standards and CODESYS. This update makes it easy to develop automation solutions and simplifies the programming process.

You can also customize display texts, background colors, and start-up graphics to suit your preferences. Easy to use in every way—from project planning to maintenance.



Installation and commissioning made easy

The easyE4 offers flexible wiring with screw or Push-in terminals. Up to 11 expansion modules can be added to increase I/O capacity for connecting sensors, actuators, and other devices. The Modbus RTU communication module can be connected on the left side of the base device for integration with compatible devices. The Ethernet interface enables programming, Modbus TCP, email, easyNET, web visualization, cloud access, time sync, and easyRTD connection. SD card support further simplifies commissioning, especially for standardized systems.



All the information you need for maintenance

In addition to the easy-to-use display, the easyE4 can also be accessed remotely, for instance via a smartphone or tablet, with various viewing options providing a comprehensive overview.

The easyE4 can log operating states (data logging) and perform simple event evaluations. It also simplifies diagnostics by providing status information on all connected communication devices and expansion modules.



Efficient setup and real-time control

The easyE4 features an interrupt block for fast response and DCF77 radio clock synchronization for second-level accuracy. Its integrated display lets operators quickly view status and adjust parameters directly on the device.

The easyE4's remote I/O function enables distributed control via easyNET, allowing access to other devices without programming remote units—simplifying setup and cutting development time.

Maximum flexibility

We continuously refine the easyE4 to meet evolving needs, including **enhanced web server functionality for remote control** and **smart home integration** via Node-RED. Its JSON API supports **popular voice assistants**, while MQTT Broker connectivity ensures **flexible local and online access with full cloud compatibility**.

New functions for even more options

With the latest release of the easyE4 we are introducing powerful new features that significantly enhance connectivity, usability, and flexibility.

Cloud integration – expanded and more flexible

The latest easyE4 upgrades now include enhanced MQTT connectivity, supporting both AWS and any other cloud platform, to enable secure cloud-based data transfer across multiple devices. This allows flexible integration with any cloud environment and enables local and remote data access for cost-effective IoT deployment. These enhancements strengthen process monitoring, AI-driven insights, and automation while offering highly adaptable and cost-efficient platform choices.

Enhanced web editor

The upgraded web editor adds intuitive widgets and scheduling tools, with visualizations accessible via any mobile browser. Timer blocks integrate easily into both programming and visualization, streamlining automation and boosting efficiency

With the direct link to AWS, you are not only able to transfer data securely to the cloud, but can also access it quickly and easily on mobile devices.

easy

Find out more:



Visualization designs can be easily created for end devices using a web browser, with configuration handled through easySoft V8.



Find out more:





easy application examples



HOWATHERM
Klimatechnik GmbH,
Brücken, Germany



Howatherm Klimatechnik Flexible control solution for mobile UV-C air disinfection units

As a manufacturer of large ventilation and air conditioning systems, Howatherm Klimatechnik wanted to make a contribution to the fight against the coronavirus pandemic with a mobile air disinfection unit.

Using the easyE4 and the **XV102 touch display** as a basis, the company created a powerful device that, among other things, automatically adapts to the number of people in the room and thus ensures that the air is germ-free.

Milde Hydraulik Automated leak monitoring system for hydraulic pumps in biogas plants

Automation solutions from a single source:
explosion-proof and IIoT-networked.

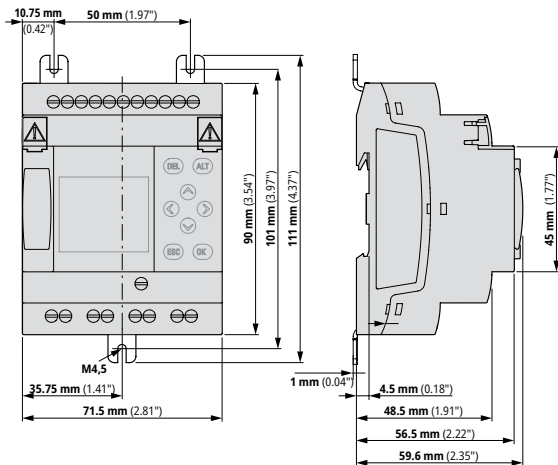
“Many equipment manufacturers and operators believe that an IIoT connection is too expensive to implement in smaller systems. Using Eaton components, we have shown that this is not the case.”



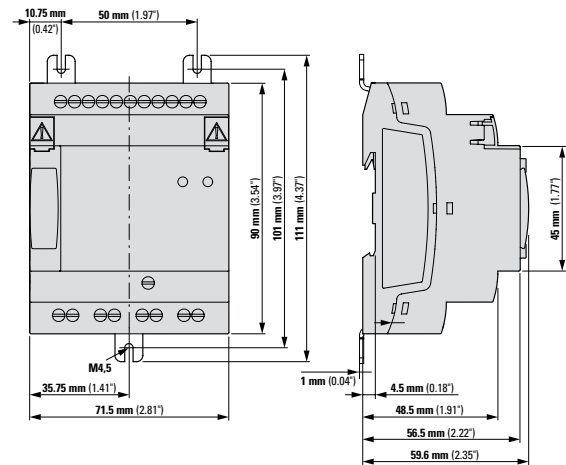
Peter Hennes, managing director
ISATT

Dimensions

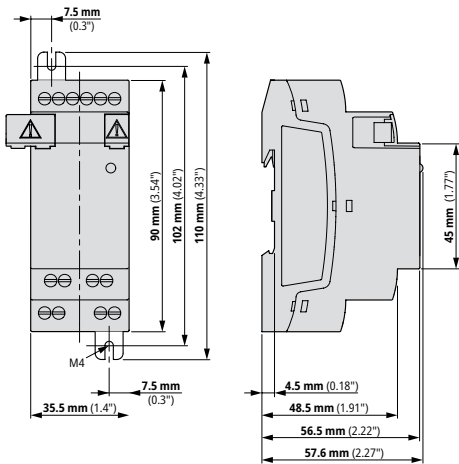
Base device with display



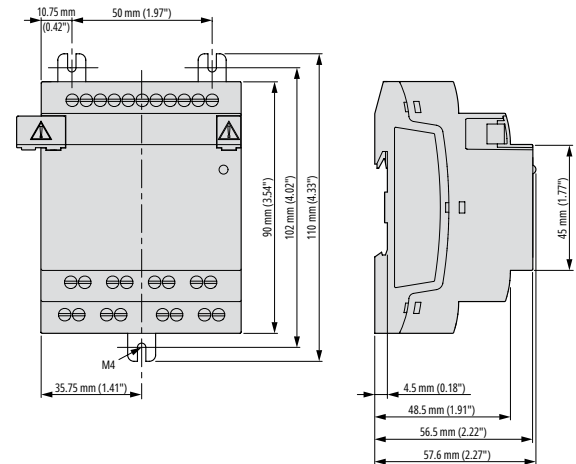
Base device without display



Slim expansion module, communication module



Wide expansion module



Ordering information

easyE4 base devices

| Description | Input | | Output | | Features | | | Supply voltage | Part no. Article no. | |
|--|---------|----------------|------------|-------------|------------------|-----------------|----------|-----------------------|-----------------------------|------------------------------|
| | Digital | Digital analog | Transistor | Relay (8 A) | Display + Keypad | Real-time clock | Ethernet | | Screw terminal | Push-in terminal |
| Base device, 12/24V DC, 24 V AC, display, keypad | 8 | 4 | - | 4 | • | • | • | 12/ 24V DC 24 V AC | EASY-E4-UC-12RC1 197211 | EASY-E4-UC-12RC1P 197504 |
| Base device, 12/24V DC, 24 V AC | 8 | 4 | - | 4 | - | • | • | 12/ 24V DC 24 V AC | EASY-E4-UC-12RCX1 197212 | EASY-E4-UC-12RCX1P 197505 |
| Base device, 24V DC, display, keypad | 8 | 4 | 4 | - | • | • | • | 24 V DC | EASY-E4-DC-12TC1 197213 | EASY-E4-DC-12TC1P 197506 |
| Base device, 24V DC | 8 | 4 | 4 | - | - | • | • | 24 V DC | EASY-E4-DC-12TCX1 197214 | EASY-E4-DC-12TCX1P 197507 |
| Base device, 100-240 V AC/DC, display, keypad | 8 | - | - | 4 | • | • | • | 100-240 V AC/DC | EASY-E4-AC-12RC1 197215 | EASY-E4-AC-12RC1P 197508 |
| Base device, 100-240 V AC/DC | 8 | - | - | 4 | - | • | • | 100-240 V AC/DC | EASY-E4-AC-12RCX1 197216 | EASY-E4-AC-12RCX1P 197509 |

Expansion modules

| Description | Input | | Output | | | Supply voltage | Part no. Article no. | |
|--|---------|--------|-------------|------------|--------|------------------------|----------------------------|-----------------------------|
| | Digital | Analog | Relay (5 A) | Transistor | Analog | | Screw terminal | Push-in terminal |
| Digital input/output, 12/24 V DC, 24 V AC | 4 | - | 4 | - | - | 12/ 24 V DC 24 V AC | EASY-E4-UC-8RE1 197217 | EASY-E4-UC-8RE1P 197510 |
| Digital input/output, 12/24 V DC, 24 V AC | 8 | - | 8 | - | - | 12/ 24 V DC 24 V AC | EASY-E4-UC-16RE1 197218 | EASY-E4-UC-16RE1P 197511 |
| Transistor input/output, 0,5 A | 4 | - | - | 4 | - | 24 V DC | EASY-E4-DC-8TE1 197219 | EASY-E4-DC-8TE1P 197512 |
| Transistor input/output, 0,5 A | 8 | - | - | 8 | - | 24 V DC | EASY-E4-DC-16TE1 197220 | EASY-E4-DC-16TE1P 197513 |
| Digital input/output, 100/110/230/ 240 V AC/DC | 4 | - | 4 | - | - | 100-240 V AC/DC | EASY-E4-AC-8RE1 197221 | EASY-E4-AC-8RE1P 197514 |
| Digital input/output, 100/110/230/ 240 V AC/DC | 8 | - | 8 | - | - | 100-240 V AC/DC | EASY-E4-AC-16RE1 197222 | EASY-E4-AC-16RE1P 197515 |
| Analog input/output, 0–10 V / 0/4–20 mA, 12 bit, all channels are configurable | - | 4 | - | - | 2 | 24 V DC | EASY-E4-DC-6AE1 197223 | EASY-E4-DC-6AE1P 197516 |
| Temperature input, 3-wire, Pt100/1000/Ni1000, 12 Bit, * [*°C] oder [*°F], Scaling, 12 Bit, in 0,1 °, in 1°, 0- 4095, 0- 65535 | - | 4 | - | - | - | 24 V DC | EASY-E4-DC-4PE1 197224 | EASY-E4-DC-4PE1P 197517 |

*Temperature range can be selected: PT100 / PT1000: from -100 to +200°C, from -100 to +400°C, from -100 to +800°C; Ni1000: from -50 to +100°C, from -50 to +200°C

Communication modules

| Description | Part no. Article no. |
|---|---------------------------|
| easyE communication module for Modbus RTU | EASY-COM-RTU-M1 199453 |
| easyE communication module for SmartWire-DT | EASY-COM-SWD-C1 199452 |

Visualization

| Description | Part no. Article no. |
|--|-------------------------------------|
| Remote Touch Display - Standard for the easyE4 control relay 4.3", resistive touch | EASY-RTD-DC-43-03B1-00 199740 |
| Remote Touch Display - Advanced for the easyE4 control relay 4.3", resistive touch | EASY-RTD-DC-43-03B2-00 EP-401057 |
| Touch panel XV-102, 3.5 inch, Linux, Resistive touch | XV-102-L0-35TQRB-1E4 EP-401718 |
| Touch panel XV-102, 5.7 inch, Linux, Resistive touch | XV-102-L0-57TVRB-1E4 EP-401719 |

Software

| Description | Part no. Article no. |
|--|--------------------------|
| easySoft programming software for the easyE series | EASYSOFT-SWLIC 197226 |

easyE4 starter boxes

| Description | Part no. Article no. |
|---|-------------------------------------|
| UC base device, patch cord, license code for easySoft, easyE4 flyer | EASY-BOX-E4-UC1 197227 |
| DC base device, patch cord, license code for easySoft, easyE4 flyer | EASY-BOX-E4-DC1 197228 |
| AC base device, patch cord, license code for easySoft, easyE4 flyer | EASY-BOX-E4-AC1 197229 |
| UC base device with display, easyE Remote Touch Display - Advanced, patch cord, license code for easySoft, easyE4 flyer | RTD-BOX-E4-UC1 199785 |
| DC base device with display, easyE Remote Touch Display - Advanced, patch cord, license code for easySoft, easyE4 flyer | RTD-BOX-E4-DC1 199786 |
| Base device EASY-E4-UC-12RC1, 24 V AC, 12/24 V DC, EMD3P energy meter, EMD3P-CT63, patch cord, power supply PSL10E24RP, license code for easySoft | EASY-BOX-E4-UC1-ENERGY EP-401744 |
| Base device EASY-E4-AC-12RC1 100-240 V AC/DC, EMD3P energy meter EMD3P-CT63 63A, patch cord, license code for easySoft | EASY-BOX-E4-AC1-ENERGY EP-401745 |

Optional accessories

| Description | Part no. Article no. |
|---|----------------------------------|
| MicroSD memory card, 2 GB, with adapter | MEMORY-SDU-A1 191087 |
| easyConnect spare parts package for expansion modules 3 x plug connectors, 3 x cover caps | EASY-E4-CONNECT1 197225 |
| easyConnect spare parts package for communication modules 3 x plug connectors, 3 x cover caps | EASY-E4-CONNECT-COM1 199513 |
| Industrial switch, S-port, 100 Mbit/s | XN-332-5ETH-UMS 199711 |
| Power supply, 1-phase, 85-264 V AC / 24 V DC, 3.125 A, 75 W | PSG75E24SPB EP-401392 |
| Power supply, 1-phase, 320-575 V AC / 24 V DC, 5 A, 120 W | PSG120E24SMB EP-401394 |
| Power supply, 1-phase, 90-264 V AC / 24 V DC, 10 A, 240 W | PSG240E24SMB EP-401395 |
| Power supply, 1-phase, 90-264 V AC / 24 V DC, 0.42 A, 10 W | PSL10E24RP EP-401402 |
| Power supply, 1-phase, 90-264 V AC / 24 V DC, 1.25 A, 30 W | PSL30E24RP EP-401403 |
| Power supply, 1-phase, 90-264 V AC / 24 V DC, 2.5 A, 60 W | PSL60E24RP EP-401404 |
| Power supply, 1-phase, 90-264 V AC / 24 V DC, 3.8 A, 100 W | PSL100E24RP EP-401405 |
| Hinged inspection window for 4HP | EASY-E4-BOX-SKF-4TE EP-401058 |
| Hinged inspection window for 6HP | EASY-E4-BOX-SKF-6TE EP-401059 |
| Base bracket (3 pcs. per device required) | ZB4-101-GF1 061360 |
| Input/output simulator for easyE4 screw terminal base units with plug-in power supply unit 110 - 240 V AC/24 V DC | EASY-E4-DC-SIM 199382 |

Eaton EMD3P energy meter

| Description | Part no. Article no. |
|--|--------------------------|
| Energy meter, 3P, DIN, Modbus TCP, 63 A | EMD3P-CT63 EP-502639 |
| Energy meter, 3P, DIN, Modbus TCP, 200 A | EMD3P-CT200 EP-502640 |
| Energy meter, 3P, DIN, Modbus TCP, 600 A | EMD3P-CT600 EP-502641 |

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