up to 25 % Save heating costs*

ECO 304
PROFESSIONAL EBUS GATEWAY

Art. No. 12024-24

APPLICATION

- Heating cost and energy optimization for all building heating systems with eBus interface*
- For all heating systems, gas, oil, solar and heat pumps
- Manufacturer-independent

ADVANTAGE

- Up to 25 % reduction in heating costs*
- Increasing living comfort

DESCRIPTION

The ECO 304 eBus Gateway is a powerful interface of the latest generation that acts as a link between your heating system and the ebusd* software. It gives you manufacturer-independent read and write access to your heating system and allows you to carry out optimizations.

This gateway was specially developed for communication with the optimized software "ebusd "* and supports the extended command set (Enhanced Mode) of ebusd*.

In addition to the eBus functions, the ECO 304 gateway has an access point and a web server that enable simple operation and configuration. Via the LAN interface, you can communicate with up to 2 data connections using the ASCII text protocol.

The ECO 304 is a new eBus coupler with a standard 2400 baud data interface and an "Enhanced Mode" extension. It does not carry out any independent data analysis or evaluation. The fully automatic level adjustment takes place in a few seconds on your eBus, eliminating the need for tedious manual adjustment.

You can conveniently change device settings, carry out software updates and view device data via the integrated web server. The web server can be accessed both via the LAN and via the access point (activated at the touch of a button).

The ECO 304 eBus Gateway is a low-maintenance industrial device as it does not require Linux and no unknown libraries are used. Software support is available via ebusd** on the web and we offer the free eConfig tool for debugging purposes. Please note that the ECO 304 is not supported by the Vaillant vrDIALOG software.

HIGHLIGHTS

eBus Gateway
optimized for ebusd** software

—

eBus interface to the
reading and writing for your
eBus heating system

—

Manufacturer independent

—

Plug and play system

—

Automatic eBus level adjustment

—

Web server and access point
for configuration, debug and firmware updates

—

Low-maintenance industrial device
because without Linux. Native
programming without unknown libraries

—

LAN interface
for data, configuration, debug
and firmware updates

—

Robust industrial design

—

Extensive protective circuits and
good device protection

—

Simple mounting on
Top-hat rail, 2TE (35mm)

—

Power supply 9-30VDC

EQUIPMENT OPTIONS

- Customization and branding possible, please contact us at info@esera.de

Technical data

Special feature	• eBus gateway/data interface is optimized for the ebusd** software. • Enables read and write access to the eBus heating bus. • Manufacturer-independent and compatible with all heating systems, including gas, oil, solar and heat pumps. • Integrated web server for configuring the data connections. • Activation of an internal access point via push-button for 30 minutes. • High-performance Ethernet interface. • Internal WLAN antenna for wireless connectivity.
Data interface	Ethernet, 10/100Mbit, autonegotiation, DHCP or fixed IP address
Number of data connections	max. 2 parallel TCP/IP socket data connections 1 x binary 2400 baud, 8 data bits, no start bit, 1 stop bit 1 x binary with enhanced protocol for ebsud* with 115.2kBaud, 8 data bits, no start bit, 1 stop bit
Protocol, debug interface	max. 2 parallel TCP/IP socket data connections • 1 x Gateway debug interface (ASCII), port 5000 • 1 x eBus data, (binary) with enhanced protocol for ebsud*, port 5001
Operating modes	Standard ebus with 2400 baud and enhanced protocol with 115.2kbaud TCP socket, TCP client, UDP
eBus interface	• Standard eBus interface • Reverse polarity and overvoltage protection • Automatic level adjustment to the correct operating point • Input voltage high: 15-24 V, low: 9-12 V
Power supply	9 - 30VDC
Power consumption	max. 1A at 24VDC
Connection	Screw terminals for stranded wire and wire
Dimensions	35 x 90 x 70mm (WxHxD)
Housing (color)	green
Housing material	ABS plastic with recycled plastic content
Degree of protection, protection class	IP20 / II with functional earthing
Temperature, humidity, operation	-5°C to 40°C, 10-92%, non-condensing

TRADEMARK

*The use may depend on the respective software, control and programming.
**ebusd is not software from ESERA GmbH. We assume no liability, guarantee no functionality and offer no support for this software.

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