



# ECO 160 SMART BUILDING, SENSOR - ACTUATOR MULTI ZONE 1-WIRE GATEWAY

Art. No. 11623-24

## APPLICATION

- State-of-the-art smart home and smart building technology: latest universal sensor and actuator interface for modern building automation
- For many smart home software applications, IP-Symcon, IO-Broker, Home Assistant, openHAB and more.
- Up to 30 sensors in up to 3 1-Wire zones  
Connectable via Plug and Play

## ADVANTAGE

- Cost and time savings due to fast installation and commissioning
- Connect, switch on and you already receive measured values
- Intuitive operation via web server

## DESCRIPTION

The ECO 160 Smart Building sensor and actuator gateway offers an integrated 1-Wire switch function for up to three 1-Wire buses. It Acts as a central 1-Wire interface in the home, extremely flexible and powerful. It integrates seamlessly with many smart home and smart building software applications.

The gateway has an access point and web server. Up to 30 sensors can be connected to the ECO 160, divided into up to 3 1-Wire buses via Plug and Play system Auto-E-Connect. Different sensors are available, e.g. temperature, humidity, dew point, air quality (CO<sub>2</sub>, VOC or fine dust), digital alarm signalling contacts, glass breakage and smoke detectors.

Configuration, software updates and sensor production data are provided via the web server. The web server is accessible via LAN and access point.

The system was developed low-maintenance according to industry standards, without Linux, with its own native programming. No unknown libraries for stability and reliability.

2 data connections via MQTT and ASCII text protocol are possible via the LAN interface. Free software support included.



## HIGHLIGHTS

Fully automatic PLUG and PLAY system for up to 30 sensors

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

Data interface for MQTT and ASCII

Auto-E-Connect Plug and Play Level I to III

Fast readout of all devices in 5 seconds cycle

Low-maintenance device in industrial quality, as natively programmed, without Linux and without unknown libraries

LAN interface for data, configuration, debug and firmware updates

Extended temperature range -5°C to 50°C

Extensive protection circuits and good device protection

Simple assembly



## EQUIPMENT OPTIONS

- Ultrafast iButton or RFID Read function for access or security authentication
- Extension by a 3rd 1-Wire zone via function extension

## TECHNICAL DATA

Feature	<ul style="list-style-type: none"> <li>• Web server for configuring the data connections</li> <li>• Internal access point available for 30 minutes at the touch of a button</li> <li>• High-performance Ethernet interface</li> <li>• Internal WLAN antenna</li> <li>• Integrate up to 30 sensors fully automatically via patented plug and play system</li> </ul>
Data interface	Ethernet, 10/100Mbit, autonegotiation, DHCP or fixed IP address
Number of data connections	max. 2 in parallel (1xASCII, 1xMQTT)
Protocols	ESERA ASCII text and MQTT protocol
Operating modes LAN	TCP Socket, UDP
Auto-E-Connect Support	Pre Configuration: Wish OWD storage Automatic Positioning: OWD enhanced Plug And Play Sensorfinder Function: LED display for sensor detection Classes Assignment: OWD Class via ECO Gateway The sensor supports Auto-E-Connect Level I, II, III
Industrial 1-Wire Bus Support	DS2401 (electronic keys (iButton or RFID)), DS1820, DS18S20, DS18B20, DS2405, DS2406, DS2413, DS2408, DS2423, DS2438, DS2450 and all ESERA sensors, actuators and memories
Bus interface	Up to 3 x Industrial 1-Wire Bus, Bus voltage 5VDC, max. 1A, 12VDC, max. 1.2A
Power supply	15-30VDC
Power consumption	Max. 2 Watt at 24VDC (without sensors at the bus interface) max. 30 Watt with max. load of the 5V and 12V outputs
Connection	Screw terminals for stranded wire and wire
Dimensions	70 x 90 x 70mm (WxHxD)
Housing (color)	Green
Housing material	ABS plastic with high percentage of recycled plastic (RAL6020)
Protection class	IP20 / III
Temperature, humidity, operation	-5°C to 50°C, 10-92%, non-condensing

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