

ECO 608 Safety Sensor Gateway System Monitoring

Art. No. 11605-230

The ECO 608 Gateway is a secure high performance sensor interface of the latest generation for system and infrastructure monitoring of critical and important assets/systems. Data transfer to e.g. Microsoft Azure IoT Hub or SAP via MQTT SSL directly possible*.

Up to 30 sensors can be connected to the ECO 608 fully automatically via Industrial 1-Wire Bus with Auto-E-Connect Plug and Play System.

The ESERA Auto-E-Connect system, which is an extension of the 1-Wire Bus standard, has been registered by ESERA GmbH as a European Patent.

A wide range of sensors are available, such as temperature, humidity, dew point, air quality (CO2, VOC or fine dust), digital alarm signalling contacts, glass breakage and smoke detectors. Each of the maximum 30 sensors can provide up to 5 data values. Thererfore the ECO 608 Gateway can supply up to 150 sensor data to your control system.

In addition to the sensor bus interface, the ECO 608 has digital inputs for monitoring both closing contacts, e.g. alarm signaling and one digital output (relay) for switching electrical loads or alarm signaling devices.

A comfortable web interface is available for configuring and software updates of the ECO 608, live and production data of all connected sensors, accessible via LAN and the access point (activated by pressing a button).

The ECO 608 by default is equipped with monitoring of the equipment safety. It continuously checks the system for operating temperature, humidity, dew point and the supply voltage. This monitoring enables an assessment of the operating equipment safety. System failures due to condensation or other leaks in the housing are therefore avoided and early planning of maintenance work is made possible.

This system represents a low-maintenance IoT device, since it does not use Linux. The controller is natively programmed and no unknown libraries are used.

The Controller has an integrated power supply. There is also an ECO608 with 24V voltage supply available. The WiFi radio interfaces have protected antennas inside the housing.







Highlights

Powerful Ethernet data interface for Modbus/TCP, MQTT(s) and ASCII protocol

OLED Display

8 x Digital alarm Inputs (closing contact) 1 x Relais output (NO/NC) 10A

webserver and access point for configuration, software updates and sensor data

 low-maintenance IoT device, since without Linux

PLUG and PLAY interface for up to 30 sensors with up to 5 data values, up to 150 sensor values in total

Powerful Ethernet interface for up to 7 parallel data connections

Self-monitoring system for housing climate and power supply

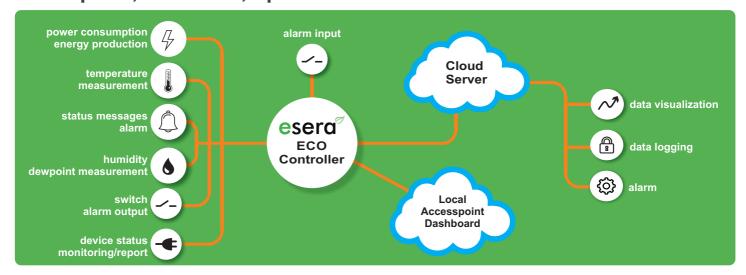
robust industrial design

DIN rail housing with 100mm width

easy mounting

supply voltage 90-260VAC

Conception, controller, up to 30 sensors



PLUG and PLAY, USER FRIENDLY, SECURE, DURABLE, ECO FRIENDLY



IoT (Internet of Things)

Monitoring and status reporting of plants, machines, buildings and systems.

IoT projects

For municipalities, utilities and corporate internet. Data center, municipal energy supply, cooling- and heat-chain management and many more...

Realize your project with us!

Range of application IoT and Industry 4.0















Technical data

Data (IoT) interface	 Ethernet LAN 10/100MBit/s with parallel up to 16 dynamic and 5 static TCP connections + webserver MQTT(s), Modbus/TCP and ASCII text protocol Accesspoint with WiFi 802.11 b/g
Special features	 OLED Dot Matrix Display Alarm inputs (closing contact) and relay output PLUG and PLAY sensor interface for up to 30 sensors Gateway without Linux, native programmed WiFi access point and web server for configuration, data and updates
Sensors, 1-wire bus Auto-E-Connect support	 Up to 30 sensors via 1-Wire bus, each sensor can deliver up to 5 sensor data, in total up to 150 sensor data Pre Configuration: Desired OWD storage Automatic Positioning: OWD enhanced Plug And Play Sensorfinder Function: LED display for sensor detection Classes Assignment: OWD class via ECO Controller The sensor supports Auto-E-Connect Level I, II, III
Digital input	8 x digital inputs for Alarm signaling contacts (normally open contacts, 5V working voltage)
Digital output	1 digital output (relais with no/nc) max. 10A/230VAC for alarming or universal switching
Protocol	MQTT(s), Modbus/TCP and ASCII text interface (CLI, ESERA protocol)
Self-monitoring, Internal sensors	Temperature sensor (+/- 0,3°C), humidity (+/-3%), dew point, supply voltage
Power supply, Power consumtion	90 - 260VAC, 5W at 230VAC
Connection	PLUG and PLAY concept with screwless clamps (push-in) for quick connection
Dimensions	90,5 x 106,3 x 62 mm (H x W x D), WLAN antenna inside
Housing material, color	ABS plastic, light grey
Protection type, protection class	IP 20 / protection class II with functional earth contact
Temperature / humidity operation	-25°C up to 70°C, humidity 10 - 92%, non condensing

Cloud services, software and logic

The Things Network IoT Network

ms azure **Secure IoT Cloud**

akenza IoT Cloud

sap Secure IoT Cloud mindsphere
Siemens IoT Cloud

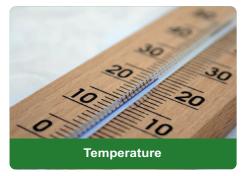
wago **Energy Management**







Environmental measurement system, sensors and actuators



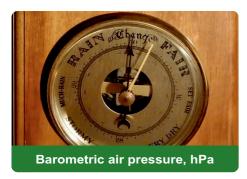










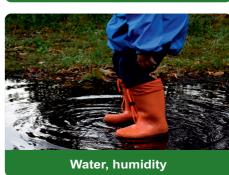












Project in planning? Let us help you to get best results!

IoT projects for energy supply, data center, energy network, municipal energy supply, cooling- and heat chains and much more. For maximum safety: developed with ESERA.

Our 80/20 concept: We develop your device based on existing devices.

PLUG and PLAY . USER FRIENDLY . SECURE . DURABLE . ECO FRIENDLY

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