auto connect

System Monitoring via ECO 208 Controller

Art. No. 11603-48

Product description

The ECO 208 Controller is a high-performance sensor interface of the latest generation for system and infrastructure monitoring.

Up to 30 sensors can be connected fully automatically to the ECO 208 via an industrial 1-Wire Bus and 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 German and European Patent.

A wide range of sensors is available, such as for temperature, air 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. This means that the ECO 208 controller can supply up to 150 sensor data to your control system.

In addition to the sensor bus interface, the ECO 208 has has 8 digital inputs for monitoring normally open contacts, such as alarm signalling or door contacts.

The ECO 208 has a digital output (relay) for switching electrical consumers or alarm signalling devices.

The WLAN and LAN interfaces can communicate with up to 20 connections via Modbus/TCP and ASCII text protocol. Configuration of the interfaces via web server.

For use in the telecommunication environment, the ECO 208 has a -48VDC mains input.

Highlights

8x digital inputs

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WLAN and LAN Modbus TCP data interface

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Max. 20 Modbus data connections

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OLED display

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1 x relay output / alarm output

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Plug and Play interface for up to 30 Sensors (e.g. temperature-, humidity-, air quality-, gas sensors)

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web server for configuration, Debug and Firmware Updates

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robust industrial design

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extensive software support

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power supply -48VDC

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connection via Push In terminals

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DIN rail housing 100mm width

Optional equipment

- Ultrafast iButton or RFID Read function for access or security authentication
- Painted electronics (conformal coating) for high operational reliability under permanent high or highly fluctuating humidity conditions
- Data logger function for long-term measurement recording or logging
- Mains failure bridging or UPS function via rechargeable battery for at least 10 minutes operation. this means that any power failure can be detected and reported, and the sensor data can still be read in and sent to the higher-level control system.
- Vandalism protection for detection of housing openings
- an external antenna for the WLAN-interface is optionally possible.

Key Features (Basic unit)

Data interface	LAN and WLAN Modbus/TCP and ASCII Text interface (ESERA Protocol) WLAN: 802.11 b/g, LAN 10/100MBit/s, up to 20 connections
Operating modes	TCP/IP Server, DHCP or fixed IP-Adress Auto Negotiation
Sensor Bus (1-Wire Industrial Bus)	1-Wire Bus system for parasiticor standard mode Support for ESERA Auto-E-Connect System,level 1 - 3
Digital inputs	8 x digital inputs for alarm signalling contacts (normally open contacts, 5V working voltage)
Digital output	1 x relay change-over contact 10A/230VAV or 6A/30VDC
Internal sensors (optional)	temperature measuring range -40 to + 85°C, accuracy +/- 0.3°C air humidity, relative, measuring range 0-100%, accuracy 4%.
Power supply	-48VDC (-36VDC to -70VDC), max. 5 Watt at -48VDC
Connection	screwless terminals, Push In terminals, RJ45 sockets
Dimensions	90,5 x 106,3 x 62 mm (H x W x D)
Housing color	light grey
Enclosure material	ABS plastic
Protection system, Protection class	IP20 / protection class II
Temperature, Operation	-25°C to +70°C (Optional -40°C to +70°C)
Air humidity, Operation	10-92%
System clock (RTC)	min. 48 hours RTC operation without mains voltage

Trademarks

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