Manuals+ — User Manuals Simplified.

SENECA Z-KEY-E Gateway Ethernet/IP Instruction Manual

INSTALLATION MANUAL
Z-KEY
Z-KEY-P
Z-KEY-E

Contents

PRELIMINARY WARNINGS

The word **WARNING** preceded by the symbol ⚠ indicates conditions or actions that put the user's safety at

risk.

The word **ATTENTION** preceded by the symbol ⚠ indicates conditions or actions that might damage the instrument or the connected equipment. The warranty shall become null and void in the event of improper use or tampering with the module or devices supplied by the manufacturer as necessary for its correct operation, and if the instructions contained in this manual are not followed.

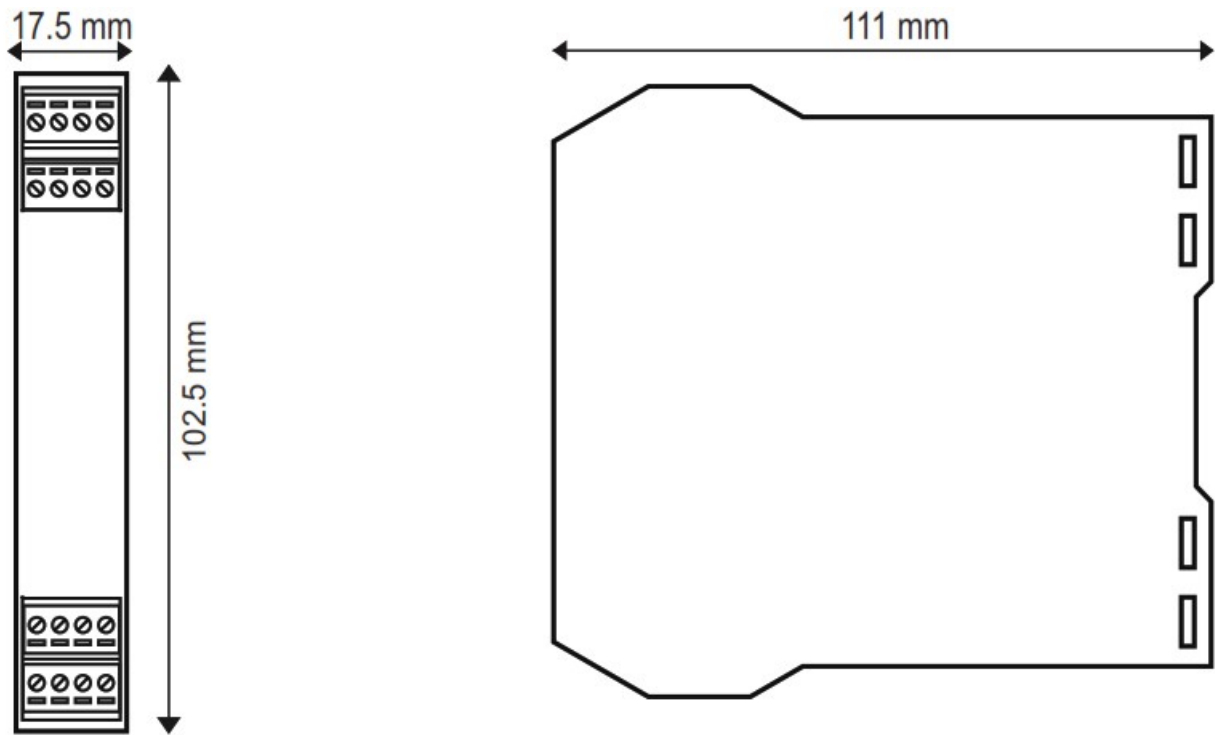|	
⚠	**WARNING:** The full content of this manual must be read before any operation. The module must only be used by qualified electricians. Specific documentation is available via QR-CODE shown on page 1.
⚠	The module must be repaired and damaged parts replaced by the Manufacturer. The product is sensitive to electrostatic discharges. Take appropriate measures during any operation.
🗑	Electrical and electronic waste disposal (applicable in the European Union and other countries with recycling). The symbol on the product or its packaging shows the product must be surrendered to a collection centre authorized to recycle electrical and electronic waste.

DOCUMENTATION Z-KEY-P	**www.seneca.it/products/z-key-p**
DOCUMENTATION Z-KEY-E	**www.seneca-it/products/z-key-e**
DOCUMENTATION Z-KEY	**www.seneca.it/products/z-key**

CONTACT INFORMATION

Technical support	**support@seneca.it**	Product information	**sales@seneca.it**

MODULE LAYOUT

17.5 mm

111 mm

102.5 mm

Dimensions: 17.5 x 102.5 x 111 mm, Weight: 100 g; Enclosure: PA6, black

SIGNALS VIA LED ON FRONT PANEL

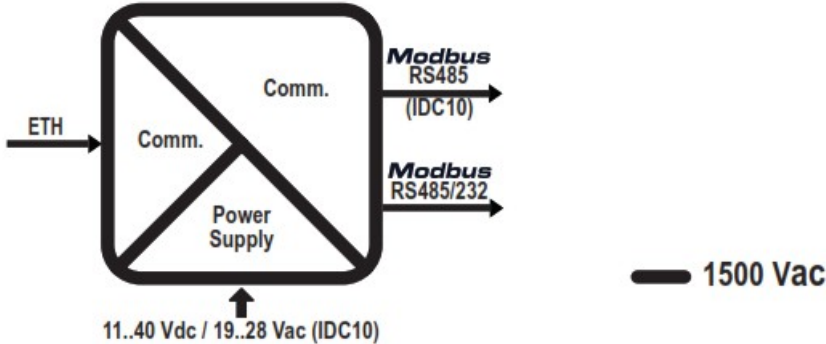| LED	STATUS	LED meaning
PWR	ON	The device is powered correctly
COM Z-KEY-P/ Z-KEY-E version	Flashing	Profinet or Ethernet/IP communication active
	Off	No Profinet or Ethernet/IP communication
TX1	Flashing	Data transmission on port #1 RS485
RX1	Flashing	Data receipt on port #1 RS485
TX2	Flashing	Data transmission on port #2 RS485/RS232
RX2	Flashing	Data reception on port #2 RS485/RS232
ETH ACT Green	Flashing	Packet transmission on Ethernet port
ETH LNK Yellow	ON	Ethernet connection present

TECHNICAL SPECIFICATIONS

CERTIFICATIONS	CE UKCA [QR code] c(UL)us LISTED 3LUT
INSULATION	
ENVIRONMENTAL CONDITIONS	Temperature: -25 °C – + 65 °C; Humidity:;30%– 90% non condensing. Altitude: Up to 2000 m above sea level; Storage temperature: -30 °C – + 85 °C Protection rating: IP20 (Not evaluated by UL)
ASSEMBLY	IEC EN60715, 35mm DIN rail in vertical position.
POWER SUPPLY	Voltage: 11 – 40 Vdc; 19 – 28 Vac 50 – 60 Hz; Absorption: Max. 1,5W
CONNECTIONS	3-way removable screw terminals, pitch 5 mm Rear connector IDC10 for DIN bar 46277 RJ45 front connector
COMMUNICATION PORTS	RS232 or RS485 switchable on terminal 10 – 11 – 12 (serial port 2) Maximum Baud rate 115 k, maximum cable length RS232 < 3m RS485 IDC10 rear connector: Maximum Baud rate 115 k. (serial port 1) RJ45 front Ethernet connector: 100 Mbit/s, maximum distance 100 m
CONFIGURATION	Configuration and FW update via webserver; Via DIP – SWITCH Via EASY SETUP 2 configuration software

⚠ **ATTENTION**

The device may only be powered by a power supply unit with a limited energy electric circuit max.
40Vdc / 28Vac output in accordance with CAN/CSA-C22.2 No. 61010-1-12 / UL Std. No. 61010-1 (3rd Edition) chapter 6.3.1/6.3.2 and 9.4 or class 2 according to CSA 223/UL 1310.

FACTORY IP ADDRESS

The default module IP address is static: 192.168.90.101

SETTING THE DIP-SWITCHES

⚠ **WARNING**

The DIP-switch settings are read only at boot time. At each change, perform a restart.
SW2 DIP-SWITCH: Through DIP-SWITCH-SW1 it is possible to set the IP configuration of the device:

DESCRIPTION	DIP 1	DIP 2	DIP 3	DIP 4
To obtain the configuration from the Flash memory, both SW1 DIP switch selectors must be set to OFF	OFF	OFF	RESERVED	RESERVED
To reset the device to factory settings both SW1 DIP switches must be set to ON	ON	ON	RESERVED	RESERVED
To force the device's IP address to the standard value of SENECA Ethernet products: 192.168.90.101	OFF	ON	RESERVED	RESERVED
Reserved	ON	OFF	RESERVED	RESERVED

KEY		
1	ON	▣
0	OFF	▣

⚠ **ATTENTION**

DIP3 and DIP4, on models where they are present, must remain OFF.
If set otherwise, the instrument will not operate correctly.
RS232/RS485 SETTING: RS232 or RS485 configuration on terminals 10-11-12 (serial port 2)

SW2			
1	ON	▣	RS232 ACTIVATION
0	OFF	▣	RS485 ACTIVATION

PROFINET AND WEBSERVER MODE

The device is normally in Profinet mode; in Profinet mode the device can be configured only through the Easy Setup2 software.
In order to access the internal webserver it is necessary to put the device in Webserver mode using the Easy Setup2 or Seneca Device Discovery software. it is also possible to change the operating mode by pressing the side button PS1 following the procedure given in the user manual.

WEB SERVER

To access the maintenance Web Server with 192.168.90.101 factory IP address:
Default user: admin, Default password: admin, **http://192.168.90.101**
N.B.: For the Z-KEY-P version it is first necessary to activate webserver mode

⚠ CAUTION
DO NOT USE DEVICES WITH THE SAME IP ADDRESS IN THE SAME ETHERNET NETWORK.

INSTALLATION REGULATIONS

The module has been designed for vertical installation on a DIN 46277 rail. For optimal operation and long life, adequate ventilation must be provided. Avoid positioning ducting or other objects that obstruct the ventilation slots.
Avoid mounting modules over heat-generating equipment. Installation in the bottom part of the electrical panel is recommended.

⚠ ATTENTION
These are open-type devices and intended for installation in an end enclosure / panel offering mechanical protection and protection against spread of fire.

ELECTRICAL CONNECTIONS

⚠ CAUTION
To meet the electromagnetic immunity requirements:
– use shielded signal cables;
– connect the shield to a preferential instrumentation earth system;
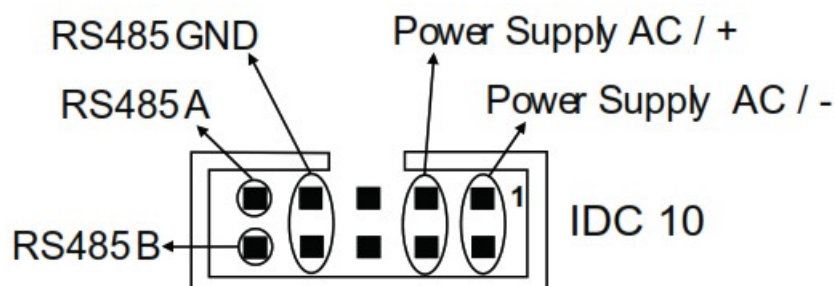– separate shielded cables from other cables used for power installations (transformers, inverters, motors, etc…).

POWER SUPPLY	SERIAL PORT 2: RS485 SW2 = OFF	SERIAL PORT 2: RS232 SW2 = ON

⚠ ATTENTION
Use only copper or copper-clad aluminium or AL-CU or CU-AL conductors

IDC10 CONNECTOR

The illustration shows the meanings of the various IDC10 connector pins if signals are to be sent via them directly.

MI00580-4-EN
INSTALLATION MANUAL

Documents / Resources

INSTALLATION MANUAL Z-KEY Z-KEY-P Z-KEY-E	**SENECA Z-KEY-E Gateway Ethernet/IP** [pdf] Instruction Manual Z-KEY-E Gateway Ethernet IP, Z-KEY-E, Gateway Ethernet IP, Ethernet IP

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