



SENECA Z-KEY-2ETH Gateway EtherNet IP Instruction Manual

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INSTALLATION MANUAL


Z-KEY-2ETH
Z-KEY-2ETH-P
Z-KEY-2ETH-E


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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-2ETH

<https://www.seneca.it/products/z-key-2eth>



DOCUMENTATION
Z-KEY-2ETH-P

<https://www.seneca.it/products/z-key-2eth-p>



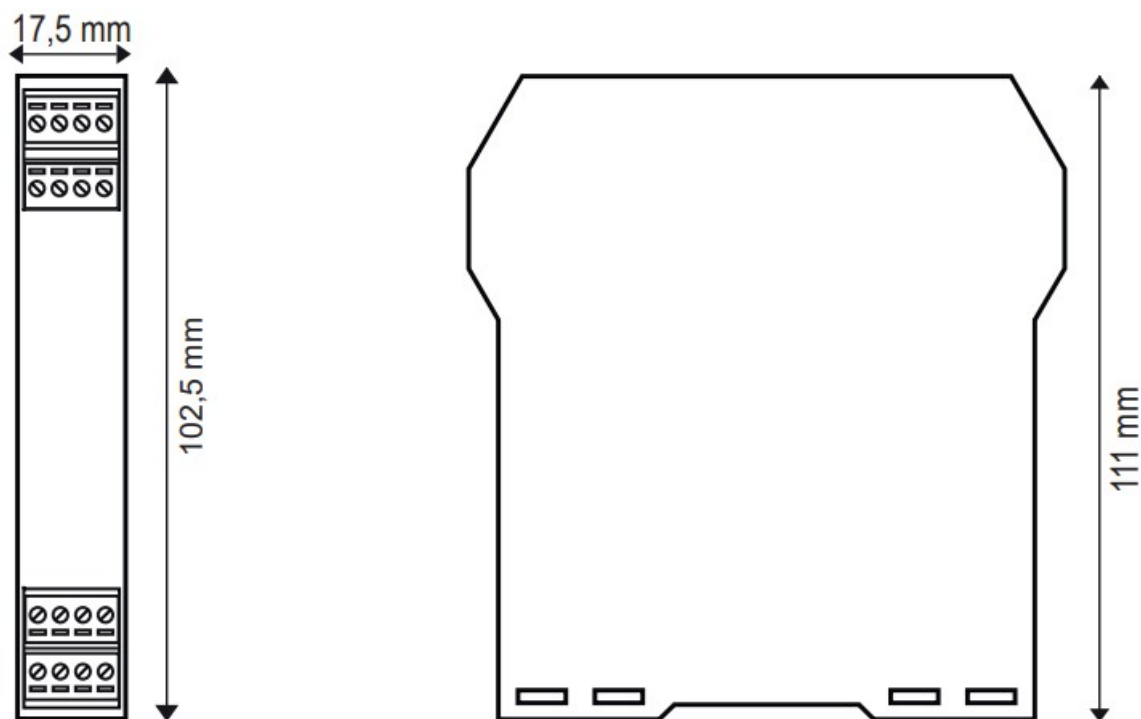
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CONTACT INFORMATION

Technical support support@seneca.it

Product information sales@seneca.it

MODULE LAYOUT



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
ET2	ON	Ethernet connection present
ET1	ON	Ethernet connection present
RX2	Flashing	Data reception on port #2 RS485/RS232
TX2	Flashing	Data transmission on port #2 RS485/RS232
RX1	Flashing	Data reception on port #1 RS485
TX1	Flashing	Data transmission on port #1 RS485
COM -P and -E versions	Flashing	Profinet and Ethernet/IP communication active
	Off	No Profinet and Ethernet/IP communication
PWR	ON	The device is powered correctly

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.



ATTENZIONE

These devices are open type and intended for installation in an enclosure/end panel that offers mechanical protection and protection against the spread of fire.

FACTORY IP ADDRESS

The default module IP address is static: 192.168.90.101

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 the factory IP address above, use the following credentials:

Username: admin; Password: admin


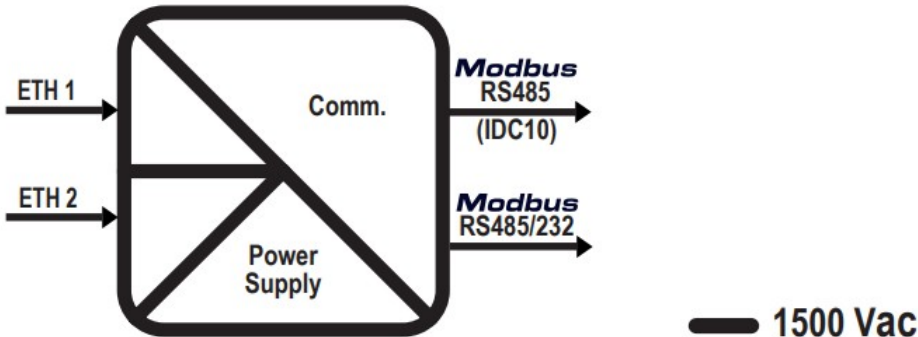
N.B.: For the Z-KEY-2ETH-P version it is first necessary to activate webserver mode



CAUTION

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

TECHNICAL SPECIFICATIONS

CERTIFICATIONS	 https://www.seneca.it/products/z-key-2eth/doc/CE_declaration
INSULATION	
POWER SUPPLY	Voltage: $11 \div 40\text{Vdc}$; $19 \div 28\text{Vac}$; $50 \div 60\text{Hz}$ Absorption: Max. 2W
ENVIRONMENTAL CONDITIONS	Temperature: $-25^{\circ}\text{C} \div + 65^{\circ}\text{C}$; Humidity: $30\% \div 90\%$ non-condensing; Storage temperature: $-30^{\circ}\text{C} \div + 85^{\circ}\text{C}$; Degree of protection: IP20
ASSEMBLY	IEC EN60715, 35mm DIN rail in vertical position.
CONNECTIONS	3-way removable screw terminals, pitch 5 mm
COMMUNICATION PORTS	RS232 or RS485 switchable on terminal Maximum Baud rate 115K, Maximum cable length RS232 < 3 m.
	RS485 IDC10 rear connector: Maximum Baud rate 115k.
	2 Ethernet with front RJ45 connector: 100Mbit/s, maximum distance 100m

SETTING THE DIP-SWITCHES











WARNING

The DIP-switch settings are read only at boot time. At each change, perform a restart.

SW1 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			RESERVED	RESERVED
To reset the device to factory settings both SW1 DIP switches must be set to ON			RESERVED	RESERVED
To force the device's IP address to the standard value of SENeca Ethernet products: 192.168.90.101			RESERVED	RESERVED
Reserved			RESERVED	RESERVED

KEY

ON	
OFF	





CAUTION

Where present, DIP3 and DIP4 must be set to OFF.
If set differently, the instrument will not work correctly.

RS232/RS485 SETTING:

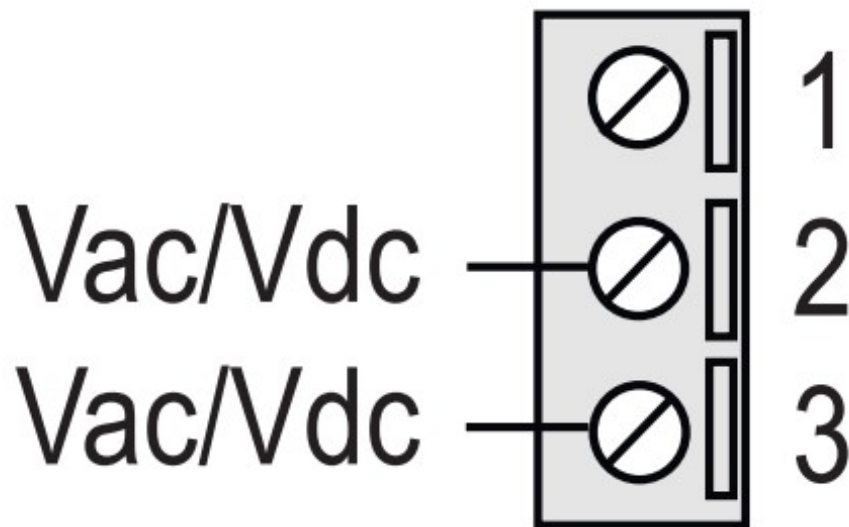
RS232 or RS485 setting on terminals 10 -11 -12 (serial port 2)

SW2

ON		RS232 ACTIVATION
OFF		RS485 ACTIVATION

ELECTRICAL CONNECTIONS

Power supply



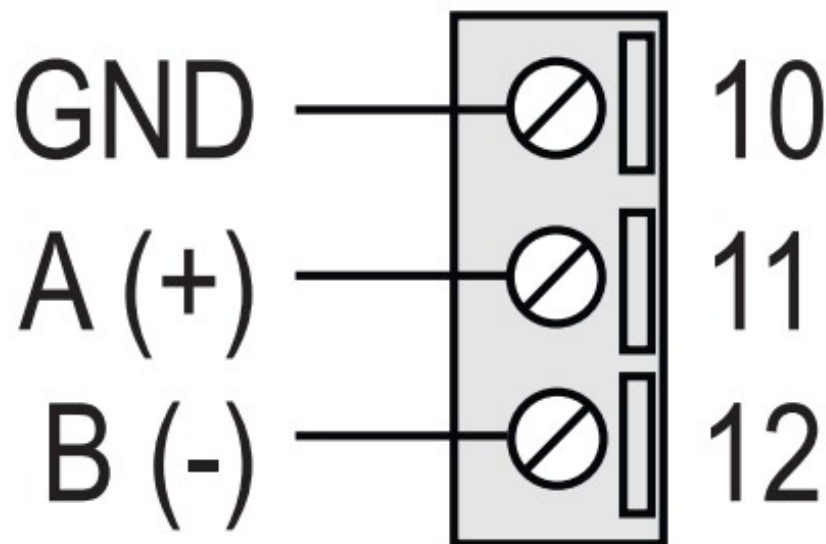
Terminals 2 and 3 can be used to provide the module with power supply as an alternative to the connection using the Z-PC-DINx bus.

Power voltage must be between 11 and 40Vdc (any polarity) or between 19 and 28Vac.

The upper limits must not be exceeded in order to avoid serious damage to the module.

If the power supply source is not protected against overload, a safety fuse with a 1A max permissible value must be installed in the power supply line.

Serial port 2: RS485 SW2 = OFF



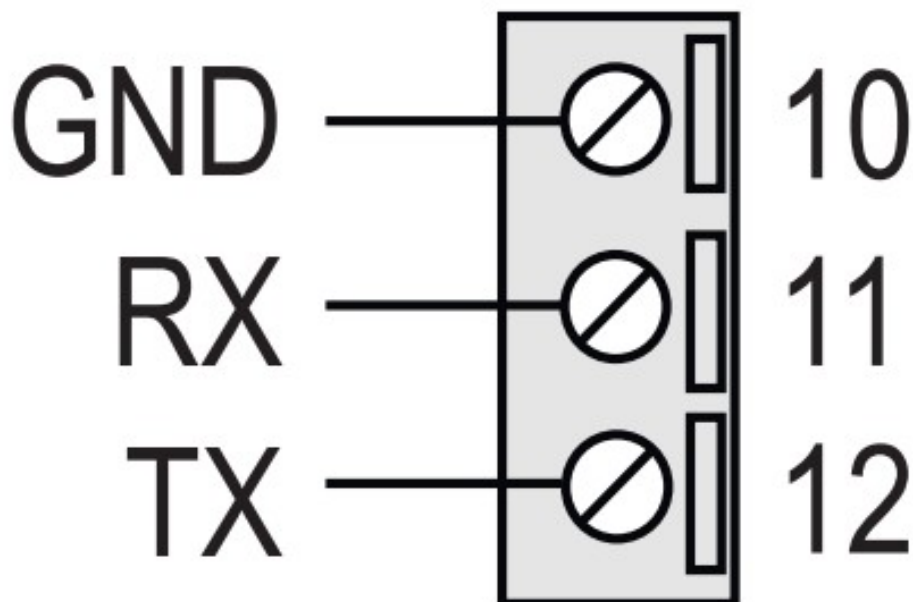
The module has a serial port that can be configured with the SW2 switch.

If switch SW2 is in the OFF position, the RS485 COM 2 port is available at terminals 10-1112.

The illustration shows how to complete connections.

N.B.: the indication of the RS485 connection polarity is not standardised and in some devices may be inverted.

Serial port 2: RS232 SW2 = ON



The module has a serial port that can be configured with the SW2 switch.

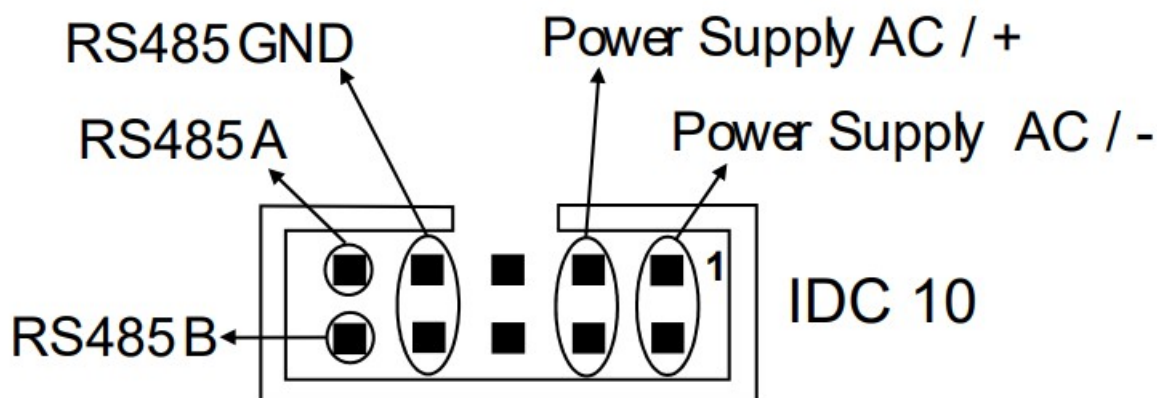
If switch SW2 is in the ON position, the RS232 COM 2 port is available at terminals 10-11-12.

The illustration shows how to complete connections.

The RS232 interface is fully settable.

Power supply and Modbus interface are available using the Seneca DIN rail bus, via the IDC10 rear connector, or the Z-PC-DINAL2-17.5 accessory.

Back connector (IDC 10)



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



Documents / Resources

	<p>SENECA Z-KEY-2ETH Gateway EtherNet IP [pdf] Instruction Manual Z-KEY-2ETH Gateway EtherNet IP, Z-KEY-2ETH, Gateway EtherNet IP, EtherNet IP, IP</p>
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