






INSTALLATION MANUAL

R-KEY-LT R-KEY-LT-P R-KEY-LT-E

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
R-KEY-LT



DOCUMENTATION
R-KEY-LT-P



DOCUMENTATION
R-KEY-LT-E



SENECA



QUALITY MANAGEMENT SYSTEM
ISO 9001:2015



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CONTACT INFORMATION

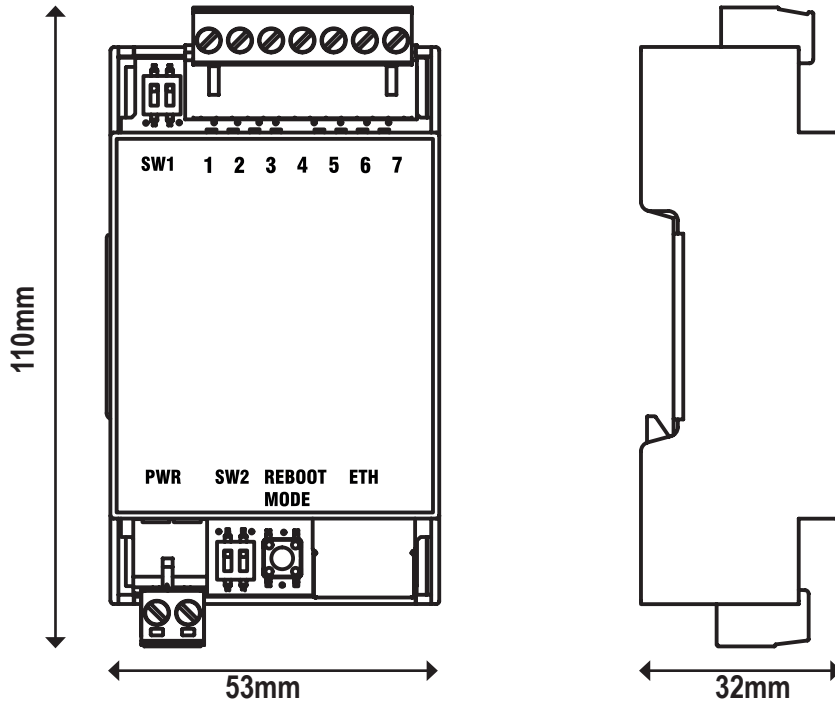
Technical support	support@seneca.it	Product information	sales@seneca.it
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The content of this document corresponds to the described products and technologies.

Stated data may be modified or supplemented for technical and/or sales purposes.

MODULE LAYOUT



Weight: 80g; Enclosure: UL94-V0 self-extinguishing PC/ABS material, black.

SIGNALS VIA LED ON FRONT PANEL

LED	STATUS	LED meaning
PWR	On	The device is powered with assigned IP
	Flashing	IP not assigned
TX	Flashing	Data transmission on port RS232/RS485
RX	Flashing	Data receipt on port RS232/RS485
ETH ACT (Yellow)	Flashing	Packet transit on Ethernet port
ETH LNK (Green)	Flashing	Ethernet port connected
COM (R-KEY-LT-P and R-KEY-LT-E version)	Flashing	Profinet or Ethernet/IP communication active
	Off	No Profinet or Ethernet/IP communication
COM+PWR (R-KEY-LT-P version)	Flashing	Webserver active / Profinet not active

DEVICE CONFIGURATION

The device can be fully set up via integrated web server. The product programming and/or configuration tools, as well as all the manuals, can be downloaded using the QR-CODE from the web address: For further information, refer to the USER MANUAL.

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




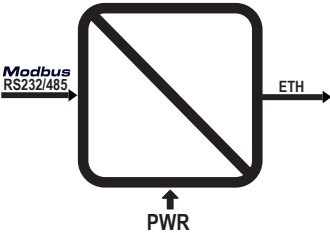
N.B.: For the R-KEY-LT-P version it is first necessary to activate webserver mode



CAUTION

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

TECHNICAL SPECIFICATIONS

<p>CERTIFICATIONS</p>	  
<p>INSULATION</p>	 <p style="text-align: right;">1500 Vac</p>
<p>POWER SUPPLY</p>	<p>Voltage: 11 ÷ 40Vdc; 19 ÷ 28Vac; 50 ÷ 60 Hz, max absorption: 1W</p>
<p>ENVIRONMENTAL CONDITIONS</p>	<p>Temperature: -25°C ÷ +65°C Humidity: 30% ÷ 90% non condensing Storage temperature: -30°C ÷ + 85°C Protection rating: IP20 (not rated by UL)</p>
<p>ASSEMBLY</p>	<p>DIN rail 35mm IEC EN60715, wall or panel with screws.</p>
<p>CPU</p>	<p>ARM 32 bit</p>
<p>OPERATING SYSTEM</p>	<p>Real time multitasking</p>
<p>CONFIGURATION</p>	<p>Configuration and FW update via webserver; Via DIP - SWITCH Via EASY SETUP 2 configuration software</p>
<p>CONNECTIONS</p>	<p>Removable 7-way screw terminals, 5 mm pitch, cable section up to 2.5 mm² Removable 2-way screw terminals, 5 mm pitch, cable section up to 2.5 mm² RJ45 connector for Ethernet cable</p>
<p>COMMUNICATION</p>	<p>RS232/RS485 on 1-7 terminal; maximum Baud rate 115k</p>
<p>ETHERNET PORTS</p>	<p>1 x 100Mbit Ethernet port with auto switch</p>





DIP - SWITCH SETTINGS

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 polarization of the bus relative to the RS485 port:

DESCRIPTION	DIP 1	DIP 2
To polarize the bus on RS485, both SW1 DIP switch selectors must be set to ON		
NOT to polarize the bus on RS485, both SW1 DIP switch selectors must be set to OFF		

SW2 DIP-SWITCH:

Through DIP-SWITCH-SW2 it is possible to set the IP configuration of the device:

DESCRIPTION	DIP 1	DIP 2
To obtain the configuration from the Flash memory, both SW2 DIP switch selectors must be set to OFF		
To reset the device to factory settings both SW2 DIP switches must be set to ON		
To force the device's IP address to the standard value of SENECA Ethernet products: 192.168.90.101		
Reserved		

ELECTRICAL CONNECTIONS

CAUTION

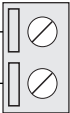





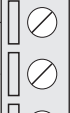
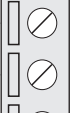


Switch the module off before connecting inputs and outputs.

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...).

CAUTION

Use only copper or copper-coated aluminium or AL-CU or CU-AL conductors

POWER SUPPLY	RS485 SERIAL PORT	RS232 SERIAL PORT
Vac / Vdc  8 Vac / Vdc  9	A (+)  1 B (-)  2 GND  3	GND  3 RTS  4 Tx  5 CTS  6 Rx  7

The power supply source must be protected from any module malfunctions using appropriately-sized safety fuses.

CAUTION

The device can only be powered by a power supply with a limited energy circuit 40Vdc / 28Vac max in output according to 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/UL1310.

CAUTION

These are open type devices intended for installation in a final casing/panel that offers mechanical protection and protection against the spread of fire.