R-KEY-LT-C
Z-KEY-C / Z-KEY-2ETH-C

Edge-to-Cloud gateway with logical functions, data logger, and MQTT/http conversion

Highlights

- **Power supply 10..40 Vdc / 19..28Vac, low consumption (1–2 W)**
- **Galvanic isolation up to 1.500 Vac**
- **Operating temperature from –25 °C to +65 °C**
- **Multi-protocol bidirectional and transparent conversion – ModBUS RTU/TCP-IP gateway - MQTT/HTTP Cloud**
- **Advanced node and connection management up to 3 remote TCPIP servers, 8 TCP-IP clients,128 RTU slaves per serial port**
- **FLEX technology for protocol switching (MQTT, ModBUS, Profinet, Ethernet/IP,OPC UA, IEC 61850)**
- **Integrated data logging ≈ 59,000 samples on cache (1.86 MB)**
- **Built-in If-Then-Else logic up to100 customizable rule**
- **Scalable tag and variable management up to 300 TAGs in shared memory**

SENECA KEY-C Series - including **R-KEY-LT-C, ZKEY-C**, and **Z-KEY-2ETH-C** models - is a family of multiprotocol ModBUS-to-Cloud gateways designed to securely connect industrial devices and networks with IT and IoT platforms. These devices collect data from **ModBUS RTU/ASCII/TCPIP** busesand send it to leading industrial clouds via **MQTT(s)** or **HTTP(s)** protocols, with **TLS 1.2** encryption and **X.509** certificates. **FLEX** technology enables dynamic protocol switching, making the gateway scompatible with other manufacturers' ecosystems without having to changehardware.In addition to the ModBUS Cloud bridge function, they integrate data loggers, shared memory accessible from **ModBUS, If-Then-Else** logic, up to **300 TAGs**, and 100 logic rules for local automation and alarms. The web server configuration interface, the **SDD (Discovery Device)** tool, together with the **Easy Cloud** function, allow for flexible management and immediate scalability in applications for remote control, energy monitoring, and smart manufacturing.

100% Made & Designed in Italy

SENECA
www.seneca.it

R-KEY-LT-C / Z-KEY-C / Z-KEY-2ETH-C

Gateway MQTT Cloud

	R-KEY-LT-C	Z-KEY-C	Z-KEY-2ETH-C
			
	ModBUS ↔ MQTT gateway (1 serial port, 1 Ethernet port)	**ModBUS ↔ MQTT gateway (2 serial ports, 1 Ethernet port)**	**ModBUS ↔ MQTT gateway (2 serial ports, 2 Ethernet ports)**
GENERAL DATA			
Power supply	10..40 Vdc; 19..28 Vac		
Max power consumption	1 W	2 W @ 24 Vac (tipico)	
Max isolation	1.500 Vac		
LEDs, status indicators	Power Supply Rx/Tx RS232/R485 Ethernet ACT/LNK		
Protection degree	IP20		
Operating temperature	-25..+65°C		
Connections	Screw terminals, removable screw terminals, 7-way, 5 mm pitch Screw terminals, removable screw terminals, 2-way, 5 mm pitch	Removable 3-way screw terminals, 5 mm pitch IDC10 rear connector for DIN rail 46277	
	Connettore frontale RJ45 (x1)	Connettore frontale RJ45 (x1)	Connettore frontale RJ45 (x2)
Dimension (WxHxD)	32 x 53 x 90 mm	17,5 x 100 x 112 mm	17,5 x 100 x 112 mm
Weight	80 g	100 g	170 g
Enclosure	UL94-V0 self-extinguishing PC/ABS	Nylon PA6 30% glass fiber, self-extinguishing class V0	
Installation	For DIN rail (IEC EN 60715)		
Certifications	CE, UKCA, UL		CE, UKCA
COMMUNICATION			
Ethernet ports	Nr.1 Fast Ethernet 100 Tx port, front RJ45		Nr.2 Fast Ethernet 100 Tx ports, front RJ45
Serial ports	Nr.1 switchable RS232/RS485 serial port, max baud rate 115kbps on connector		
	-	Nr.1 RS485 port, max baud rate 115k on IDC10 connector for bus and terminals	
Supported protocols	MQTTs, HTTPs ModBUS RTU / TCP-IP / ASCII		
Operating modes	Gateway MQTT Client ↔ ModBUS RTU Master / ModBUS TCP-IP Client Gateway HTTP REST↔ ModBUS RTU Master / ModBUS TCP-IP Client		
Datalogger capacity	~59.000 samples (≈1,86 MB cache)		
FLEX (mutiprotocol configuration)	Yes		
Variables memory area	Max 300 TAG		
Connectivity	Max 3 TCP-IP remote servers Max 128 ModBUS RTU/ASCII slave nodes (per serial port) Max 8 Client TCP-IP		
SECURITY			
TLS 1.2 connection	Yes		
X.509 certificates	Yes		
CONFIGURATION			
DIP Switch (default)	Yes		
Web Server	Yes		
SDD (Seneca Discovery Device)	Yes		
Logica If-Then-Else	Yes		
Order codes	**R-KEY-LT-C**	**Z-KEY-C**	**Z-KEY-2ETH-C**

25C0592p01 - Pubblication - Z-KEY / R-KEY_2511EN – November 2025

SENECA
Via Austria, 26 • 35127 Padova - (I) - Tel. +39 049 87.05.359
Fax +39 049 87.06.287 • www.seneca.it • info@seneca.it