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SENECA Z-TWS4-RT, Z-PASS1-RT IoT Gateway



## 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 could damage the instrument or 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 using the 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** 





**DOCUMENTATION** 



SENECA s.r.l.; Via Austria, 26 – 35127 – PADOVA – ITALY; Tel. +39.049.8705359 – Fax +39.049.8706287

#### **CONTACT INFORMATION**

Technical support

support@seneca.it

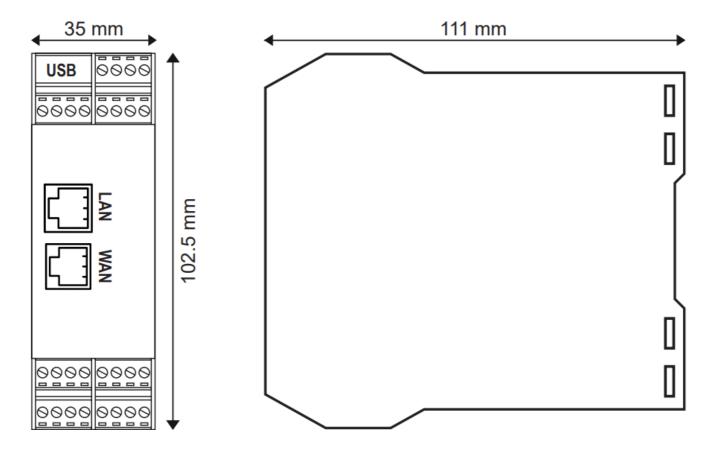
Product information

sales@seneca.it

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

#### **MODULE LAYOUT**



Double module dimensions LxHxD:  $35 \times 102.5 \times 111$  mm; Weight: 175 g; Enclosure: PA6, black

## **SIGNALS VIA LED ON FRONT PANEL**

LED	STATUS	LED meaning	
PWR	On	Device powered correctly	
I VVII	Off	Device not powered	
	On	Locking system	
RUN	Flashing	The module is working correctly	
	Off	System Locked / Booting	
DIDO1 DIDO6	On	Input or output activated	
DIDOT DIDO0	Off	Input or output deactivated	
	On	VPN connection active	
VPN			

	Flashing	VPN connection problems		
	On	VPN BOX "SERVICE" connection is working correctly		
SRV	Flashing	VPN BOX "SERVICE" connection in error		
	Off	VPN BOX "SERVICE" connection disabled		
	On	Incorrect RS485/ RS232 connection		
RX1 / RX2 / RX4	Flashing	Reception of data packet completed on RS485/ RS232		
TX1 / TX2 / TX4	Flashing	Transmission of data packet completed on RS48 5/ RS232		
ETH ACT (Green)	Flashing	Packet transit on Ethernet port		
ETH LNK (Yellow	On	Ethernet port connected		

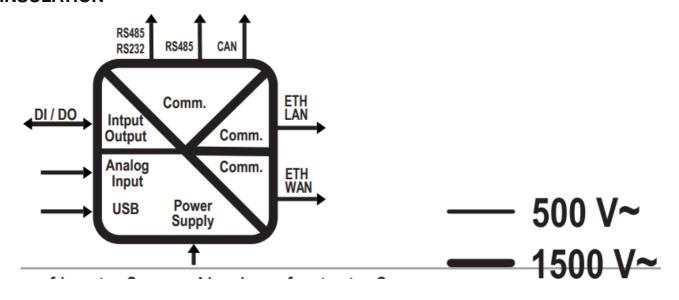
# **TECHNICAL SPECIFICATIONS**

CERTIFICATIO NS	CE z-TWS4-RT	UK CA z-P/	E TO	■ A A A A A A A A A A A A A A A A A A A
POWER SUPPL	11 ÷ 40Vdc; 50 ÷ 60Hz; Max absorption: 6 W			

ENVIRONMENT AL CONDITION S	Operating temperature: from -25°C to +65°C; Humidity: 10% ÷ 90 % non condensing. Storage temperature: from -30°C to +80°C; De gree of protection: IP20
ASSEMBLY	35mm DIN rail IEC EN60715
CONNECTIONS	Removable 3.5 mm pitch terminal block, 1.5 mm2 max cable section
PROCESSOR	ARM 32 bit
MEMORY	512MB RAM and ≥ 4GB Flash; PUSH-PUSH type slot for micro SD
FEATURES	Integrated Web Server and update via Web Server

	COM1: RS232 / RS485 (on terminals) COM2: RS485 (on terminals or IDC10) COM4: RS485 (on terminals)
	Maximum baud rate 115kbps; minimum 200 bps Type A USB HOS
COMMUNICATI ON PORTS	ETH1 and ETH2 Fast Ethernet RJ45 10/100Mbps, Maximum connection distance: 100 m CAN (on terminals) or on IDC10 (with manual selector) (May not be present on all models).

## **INSULATION**



DIGITAL INPUT S OUTPUTS	Number of inputs: 6 max.; Number of outputs: 6 max. Voltage OFF <4V, ON>8V MAX. current (Vout+) 50mA Absorbed current: 3mA @ 12Vdc , 5mA @ 24Vdc.  Voltage (Vext+): 10 ÷ 28Vdc. MAX. Current: 200 mA per channel.  Protect the outputs using a 1.5A fuse (as shown in the wiring diagr ams)
ANALOGUE IN PUTS	Voltage 0 ÷ 30Vdc, impedance 200k $\Omega$ Current 0 ÷ 25 mA, impedance ~ 50 $\Omega$
AUXILIARY VO LTAGE OUTPU T	V AUX: 12Vdc; Max. 50 mA

#### **WARNING**

This is a Class A product. In a residential environment, this equipment may cause radio interference. In this case, the user may have to take adequate countermeasures.

#### INSTALLATION REGULATIONS

The module has been designed for vertical installation on a DIN 46277 rail. For optimal operation and long life, adequate ven-tilation 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.

#### **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.

#### Modbus Connection Rules

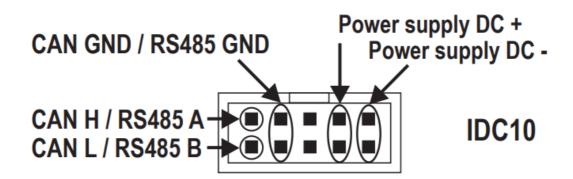
1. Install the modules in the DIN rail (120 max)

- 2. Connect the remote modules using cables of an appropriate length. The following table shows cable length data:
- Bus length: maximum length of the Modbus network according to the Baud Rate. This is the length of the cables that connect the two farthest modules.
- Derivation length: maximum length of a derivation 2 m.

For maximum performance, it is recommended to use special shielded cables, designed specifically for data communication.

#### **IDC10 CONNECTOR**

Power supply and Modbus interface are available also using the Seneca DIN rail bus, via the IDC10 rear connector, or the Z-PC-DINAL1-35. 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.

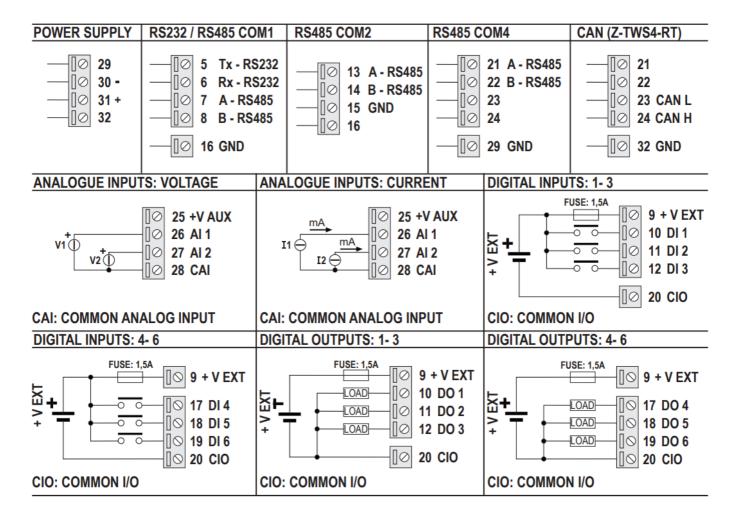
#### **ELECTRICAL CONNECTIONS**

#### **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.).



## **SETTING THE DIP-SWITCHES**

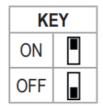
#### WARNING

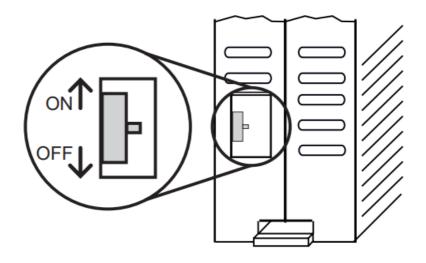
The DIP-switch settings are read only at boot time. At each change, perform a restart. For use and settings via DIP-SWITCH SW1 see the user manual available on the website on the web page dedicated to the product.

## SW2 DIP SWITCH SETTING: (Z-TWS4-RT ONLY):

Through DIP SWITCH SW2 it is possible to select RS485 or CAN communication through the IDC10 connector:

SW2			
ON		RS485 ACTIVATION	
OFF		CAN ACTIVATION	





# **Documents / Resources**



<u>SENECA Z-TWS4-RT, Z-PASS1-RT IoT Gateway</u> [pdf] Installation Guide Z-TWS4-RT, Z-PASS1-RT, Z-TWS4-RT Z-PASS1-RT IoT Gateway, Z-TWS 4-RT Z-PASS1-RT, IoT Gateway, Gateway



<u>SENECA Z-TWS4-RT, Z-PASS1-RT IoT Gateway</u> [pdf] Installation Guide Z-TWS4-RT, Z-PASS1-RT, Z-TWS4-RT Z-PASS1-RT IoT Gateway, Z-TWS 4-RT Z-PASS1-RT, IoT Gateway, Gateway

#### References

User Manual

# **Related Posts**



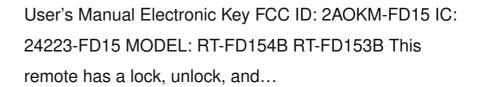
SENECA Z-PASS2-RT, Z-PASS2-RT-S IoT Multifunction
Controllers Installation Guide

SENECA Z-PASS2-RT, Z-PASS2-RT-S IoT Multifunction
Controllers PRELIMINARY WARNINGS he word

WARNING preceded by the symbol indicates conditions or...







## SENECA Z-TWS4 Smart Datalogger Instruction Manual

SENECA Z-TWS4 Smart Datalogger Specifications
Power Supply: 6-15 Vdc Transducer Power Supply: 11-40
Vdc / 19-28 Vac UPS...

CheckMate III RT-U27A/RT-U27B Universal Remote
Control User Manual

CheckMate III RT-U27A/RT-U27B Universal Remote
Control User Manual - Optimized PDF CheckMate III RT-

U27A/RT-U27B Universal Remote Control User...

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