INSTALLATION MANUAL

Z-LINK2-LO

PRELIMINARY WARNINGS

The word **WARNING** preceded by the symbol \triangle indicates conditions or actions that put the user's safety at risk. The word **ATTENTION** preceded by the symbol \triangle 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.







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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.								

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MODULE LAYOUT



Dimensions LxHxD: 17.5 x 102.5 x 111 mm; Weight: 110 g; Enclosure: PA6, black SIGNALS VIA LED ON FRONT PANEL

LED	STATUS	LED meaning			
L1	Flashing	Packet transmission on the bus			
L2	Flashing	Packet transmission on radio module			
L3		Not used			
L4	Flashing	Module powered correctly			

IECHNICAL SPECIFICATIONS

CERTIFICATIONS	CE LA		
INSULATION	Modbus RS485 Power Supply T 1500 Vac		
POWER SUPPLY	Voltage: 10 ÷ 40Vdc; 19 ÷ 28Vac; 50 ÷ 60Hz; Max: 1W		
ENVIRONMENTAL CONDITIONS	Temperature: -10 ÷ +65°C; Humidity: 30% ÷ 90% non-condensing; Storage temperature: -20÷ +85°C; Degree of protection: IP20.		
ASSEMBLY	IEC EN60715, 35mm DIN rail in vertical position.		
CONNECTIONS	3-way removable screw terminals, pitch 5mm Rear connector IDC10 for DIN bar 46277 front microUSB		
BAND OF FREQUENCY BAND ERC 70-03, February 2023, Annex 1, h1.7 (band centre 869.525MHz)			
MODULATION	LoRa® (CSS Modulation - Chirp Spread Spectrum)		
RECEIVER CATE- GORY	2		
RANGE OF ANTENNAS	450/500 m with supplied Antenna, 700/800 m with Magnetic Antenna.		

SETTING THE DIP-SWITCHES

WARNING

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

For operation and settings via DIP-SWITCH SW1 use the configuration software.

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 (see Diagram 1).

-Derivation length: maximum length of a derivation 2 m (see Diagram 1).



For maximum performance, it is recommended to use special shielded cables, such as BELDEN 9841.

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.

▲ 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.

To configure the device via the Easy Setup software, the master device must be switched off.

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 10 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.



RS232 serial port

The module has a serial port that can be configured with the SW2 switch. The illustration shows how to complete connections. The RS232 interface is fully settable.

A (+) - 0 7 B (-) - 0 8 GND - 0 9

RS485 serial port

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

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

