LoRa Serial Converter

DS-AC3222 EU433

DATASHEET

1

Packaging List

	OBJECTS	QUANTITY
1	DS-AC3222 EU433	1
2	Antenna	1
3	Certification	1

Product Description

The LoRa Serial Converter DS-AC3222 EU433 is an RS-485 device that uses an enhanced LoRa module, works in the data transmission mode, supports various protocols. Remote wireless network communication can be implemented by joining the LoRa network. It is widely used in smart buildings, municipal lighting, tunnel lighting, monitoring and automation and other industries. This product is installed with 35mm DIN standard rail, with a width of 2P, and is easy to install in the standard electrical box. High performance 32bit processor is adopted, with built-in OLED dual color display screen to display parameters. Double buttons can be used to turn pages for viewing and modify communication parameters. It is characterized by fast installation, simple configuration, high reliability, low power consumption, small size and light weight.

Model Description

DS-AC3222 EU433

- **DS:** Digital Solution
- **AC:** AC Power Supply
- **32:** 30 Series Product
- **22:** Output 22dBm
- **EU433:** Frequency

2

Specific Characteristic

- Rated Voltage 85-420V~
- Rated Current 0.01A
- Frequency 50/60Hz
- 128 × 64 double color OLED
- 1-way RS-485(9600bps Default)
- LoRa transparent transmission to RS-485
- The maximum output power of LoRa is +22dBm
- Operating temperature: - 25 °C to +70 °C
- Storage temperature: - 40 °C to +85 °C

Wireless Parameters

PARAMETER	NOTE	Min.	Typ.	Max.
Frequency	433(Default)	430MHz	--	440MHz
	470(Customized)	470MHz	--	510MHz
	868(Customized)	863MHz	--	870MHz
	915(Customized)	902MHz	--	928MHz
RF Power	--	--	--	+22dBm
Receiving Sensitivity	SF=7, BW=125KHz	--	-123dBm	--

Application Cenarios

Public Places | Office | Aapartment | Classroom | Warehouse | Server Room

Certification

This product has been strictly inspected to meet the standards approved for sale.

Inspector: _____

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3

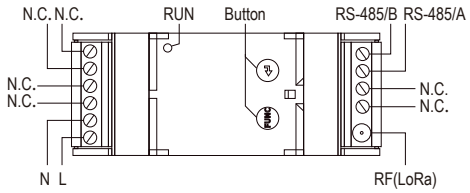
Function

ITEM	FUNTION
Mode	LoRa
OTA	RS-485/ LoRa
Command	AT(Over RS-485)
Baud Rate	1200bps/2400bps/4800bps/9600bps(Default)
Local Configuration	Channel

Electrical

PARAMETER	Min.	Typ.	Max.
Rated Voltage	85V~	220V~	420V~
Rated Current	--	0.01A	--
Frequency	--	50Hz	60Hz

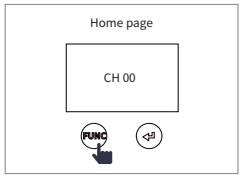
Terminal Function



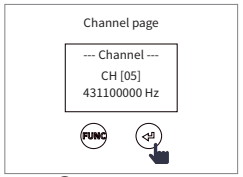
4

TERMINAL	DIRECTION	FUNTION	NOTE
L	Input	Live Wire	AC input, no distinction between Neutral and Live Wire
N	Input	Neutral Wire	
N.C	--	--	No function, must be suspended
RS-485/A	--	RS-485/A port	Connect to host/AT Configuration
RS-485/B		RS-485/B port	
RF(LoRa)	--	RF Antenna Interface	MMCX female, connected to LoRa antenna

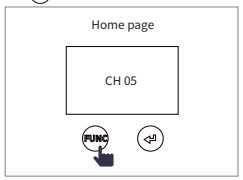
Setting



1 Click FUNC to show Homepage and press FUNC for 1 second to enter the Channel



2 Click ⏎ each time, CH will increase once; After holding down ⏎ for 0.5 seconds, CH will increase continuously

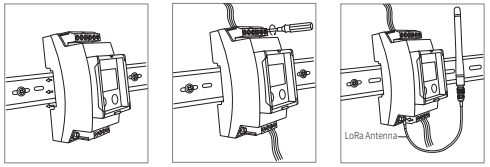


3 Click FUNC to confirm CH configuration, then back to Home

Note: To ensure the same CH configuration of two devices

5

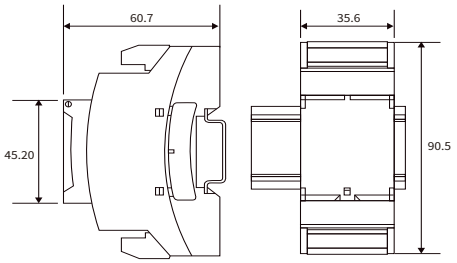
Installation



1 DIN-Rail Mounting | 2 Connect the L&N Lines and RS-485 A&B Lines | 3 Connect the Antenna

Dimension

Unit: mm, Tolerance: ±0.2mm.



6

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