ZENOPIX
smart solutions

ADDRESS WRITER
Technical Document and User Guide

English

ZENOPIX ADDRESS WRITER

TECHNICAL DOCUMENT AND USER MANUAL

1st Version June 2025 — Thank you for choosing the Zenopix® ADDRESS WRITER.

Please read this booklet and the user manual of the product before using it. You can access the user manual on our website.

If you experience any technical issues, you can contact our company using the information below and receive technical support.

ZENOPIX® Electronics Limited Company
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Copyright Information and Disclaimer

Safe Use

Use the device only in dry environments (indoors). The device's IP rating is IP20. Do not use the device in humid environments, and avoid contact with water or other liquids. If you do not intend to use the device for a long time, turn off its power. It is always recommended to use galvanic isolation. Do not remove any parts from the unit or connect it to an ungrounded circuit. Do not connect the unit to LEDs that are already on. Connect the unit only to LEDs and controllers that are off initially. There are no user-serviceable parts inside or outside the interface. Repairs should only be carried out by the manufacturer. If the interface appears defective, please contact your dealer. After the warranty period expires, if possible, you can contact your supplier or manufacturer for repair service at an individual service fee. This device is intended to be used by professionals. It is not designed to be operated by untrained individuals or children.

Warranty Information

The Zenopix ADDRESS WRITER is covered by the manufacturer's warranty. For detailed information, please refer to the product's warranty certificate or visit our website.

Package Contents

1x Zenopix ADDRESS WRITER
1x Terminal Bag
1x Technical Document and User Manual
1x Warranty Certificate

NOTE: After opening the package, check the contents and the condition of the interface! If anything is missing or damaged, contact your supplier. Do not use the device if it appears damaged!

Information Regarding Human and Environmental Health

If the instructions in the user manual are followed completely, this device poses no risk to human health or the environment.

The device must not be disposed of as regular waste; it should be delivered to collection centers (electronic and electrical equipment recycling points). It must be recycled or disposed of in a manner that does not harm nature or human health.

Introduction

The Zenopix RDM/DMX Address Writer is a device used to address and test DMX chips in LED strips and RDM devices. The Address Writer supports addressing TM512, UCS512, SM16512, and SM17512 DMX chips. It performs addressing and testing of RDM decoders and fixtures. With channel counting, it verifies whether the addresses are assigned correctly. It provides flexible field operation with a 12-24V power input.

Technical Specifications

Network Protocol	DMX/RDM
Input Voltage Range	12-24VDC
Output Port	2x4096 DMX Channels / 32 RDM Endpoint Devices
Chip Mode	Single / Tunable / RGB / RGBW
Status LED	2 Units
Output Power	< 3W
Supported Integrated Circuits	TM512, UCS512, SM16512, SM18522
Operating Temperature and Humidity	0°C - 55°C / 20 ~ 95%RH,
Storage Temperature and Humidity	-40°C ~ 80°C, 10~95%RH
Dimensions	159×93×24mm(L×W×H)
Weight	165g±10g
Protection	IP-20

Device Button Descriptions

There are 5 buttons on the device. The buttons are 'Menu, Sub Menu, OK, Up, and Down.'

Menu

The Menu button allows you to switch between the 5 programs inside the Zenopix Writer. You can switch to another program by pressing the Menu button.

Sub Menu

It is used to navigate through the submenus within the program. You can switch to another submenu by pressing the button.

Ok

By pressing the OK button, you activate the selected menu or submenu.

Up

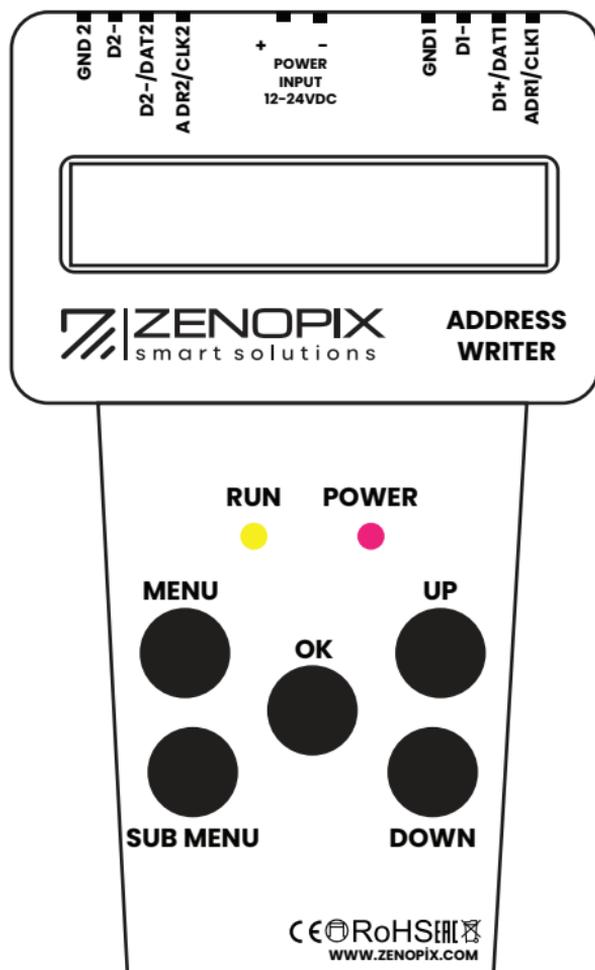You can increase the selected value by pressing the Up button.

Down

You can decrease the selected value by pressing the Down button.

IP Address and Device Details

- Device Serial Number
- Device Model
- Default IP Address

You can find the above information on the device.

Device

GND 2
D2 –
D2 –/DAT2
A DR2/CLK2

+
POWER
INPUT
12–24VDC
–

GND1
D1 –
D1+/DAT1
ADRJ/CLK1

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ADDRESS
WRITER

RUN   POWER

MENU   UP

OK

SUB MENU   DOWN

CE RoHS

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Menu Description (Program)

There are 5 programs in the device menu. These are: DMX Addressing, RDM Addressing, Test, Animation, and Setting.

1. DMX Addressing: Used to address the LEDs you will use. You can assign a value between 1 and 4096 to the first channel, and the subsequent channels will be addressed automatically. You can set which address the first channel will take by pressing the Sub Menu button. To increase the address number faster, press and hold the Up button first, then press and hold the Down button. You can also change the address one by one using the Up and Down buttons. Press the OK button to apply the addressing.

2. RDM Addressing: Press the OK button to find the RDM device connected to the line. The device will start scanning both ports. Then, the ID number and address value of the detected RDM decoder will appear on the screen. You can select the address value using the Up and Down buttons and save it by pressing OK.

3. Test: In this menu, you can test the LEDs you will use. You can switch between test colors and animations by pressing the Sub Menu button.

4. Chip Select: In this menu, you can select the chip model you want to address. If you are performing RDM addressing on Zenopix decoders, please select the default TM512 chip.

5. Setting: In this section, you can select the type and pixel configuration of your LED. You can change your LED type using the Up and Down buttons. By pressing the Sub Menu button, you can select the number of pixel groups. This feature allows you to address, if desired, 2 pixels as a single pixel.

WARNINGS

1. Products must be installed by qualified professionals.

2. Zenopix products are not waterproof (except for special models). Please avoid exposure to sun and rain. When installed outdoors, ensure that the product is mounted inside a waterproof enclosure. Proper heat dissipation will extend the product's lifespan. Please provide adequate ventilation.

3. Please check that the operating voltage used complies with the product's parameter requirements.

4. The diameter of the wire used must be able to carry the load of the connected lighting fixtures, and the cable connections must be secure.

5. Before powering on the products, please ensure all cables are correctly connected to avoid damage to the lighting fixtures due to incorrect wiring. If a malfunction occurs, do not attempt to repair the products yourself. If you have any questions, please contact your suppliers.

6. This manual may be changed without prior notice. Product functions depend on the goods. If you have any questions, please feel free to contact us.

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Zenopix is an R&D, manufacturing, and technology company with nearly 20 years of extensive experience in electronics and software, specializing deeply in lighting control systems.

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