

TX7201

Addressable Zone Monitor Unit Installation and Operation Manual



Product Safety

To prevent severe injury and loss of life or property, read the instruction carefully before installing the module to ensure proper and safe operation of the system.



European Union directive

2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points.



For more information please visit the website at www.recyclethis.info

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1 Introduction

1.1 Overview

TX7201 Addressable Zone Monitor unit is an addressable interface module, which will integrate conventional detectors or conventional manual call points to addressable system. When any of the connected devices alarms are active, the unit can send the alarm message to fire alarm controller, which generates alarm signal and displays its address. The unit can match with the conventional optical smoke detector, conventional rate of rise and fixed temperature detector and conventional manual call point etc. It has the function of checking short or open circuit of the output connection, by the End of Line Resistor (EOLR). The fault message includes open circuit, short circuit or any removal of the detectors.

The unit manufactured base on the requirement of EN 54 part 18, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assemblies make installation and maintenance more convenient to the installer. The unit is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

1.2 Feature and Benefits

- EN54-18 Compliance
- Built-in MCU processor and digital addressing
- Intelligent self-diagnosis of open circuit
- Enhanced capacity of interference resistance by using multilevel wave filtering process
- LED status indicator
- Onsite Adjustable Parameter
- Loop and external power input
- Aesthetically pleasing design
- Parallel connecting up to 16 conventional detector
- Unit mounting with fix base for simple installation

1.3 Technical Specification

- | | |
|-----------------------------|--|
| • Listed | LPCB Pending |
| • Compliance | EN54-18:2005/AC2007 |
| • Input Voltage | Loop Power:24VDC [16V to 28V] |
| | External PSU: 20 to 28VDC |
| • Current Consumption | Loop: Standby 1.3mA, Alarm: 5mA |
| | External PSU: Standby10mA, Alarm: 60mA |
| • Control output voltage | 24VDC (Only for the use of TX7130, Do not allow the short circuit) |
| • End of line Resistance | 5.1Kohms/ ¼ W |
| • Protocol/Addressing | T&A, Value range from 1 to 254 |
| • Indicator Status | Normal: Single blink/Active: Steady/Fault: Double Blink |
| • Material / Colour | ABS / White Glossy finishing |
| • Dimension / LWH | 108 mm x 86 mm x38 mm |
| • Weight | 154g (with Base), 83g (without Base) |
| • Operating Temperature | -10°C to +50°C |
| • Ingress Protection Rating | IP30 |
| • Humidity | 0 to 95% Relative Humidity, Non condensing |

2 Installation

2.1 Installation Preparation

This Addressable Zone Monitor Unit must be installed, commissioned and maintained by a qualified or factory trained service personnel. The installation must be installed in compliance with all local codes having a jurisdiction in your area or BS 5839 Part 1 and EN54.

T&A products has available range of Addressable Zone Monitor Unit, each Unit is designed for specific application, it is essential to consider the requirement of both sides of the Unit to avoid malfunction and typical fault scenario. The main caution is to ensure that the voltage rating of the equipment and Unit are compatible.

2.2 Installation and Wiring

1. Mount the Addressable Zone Monitor Unit base on standard one [1] gang electrical back box. Follow the arrow mark for the correct position. Do not over-tighten the screws otherwise the base will twist. Use two M4 standard screws.
2. Connect the wire in terminal according to the requirement as shown in Figure [2]. Verify the device address and other parameters then stick on the label before attaching the Unit. The sticker labels are available on the control panel. Align the Unit and tabs and gently pushing the device until it locks into place.

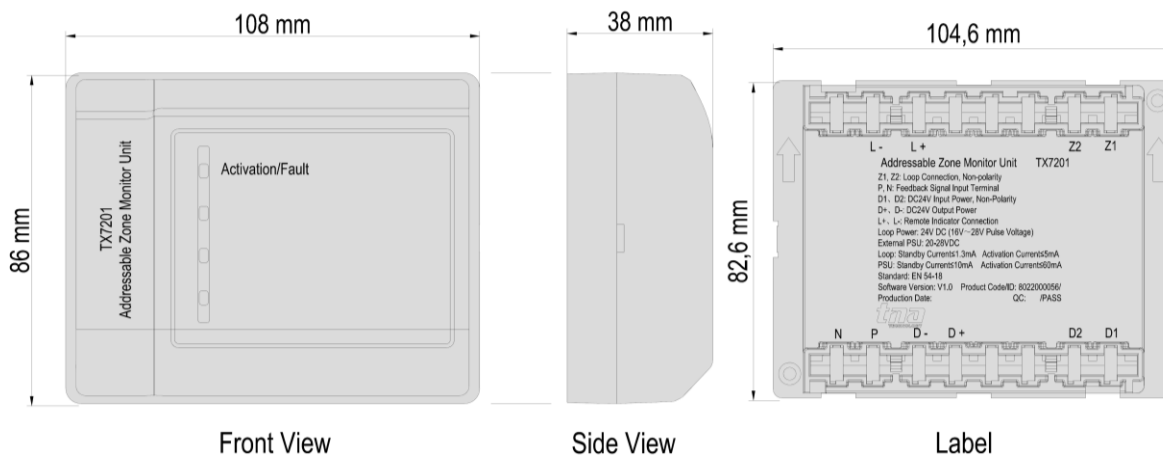
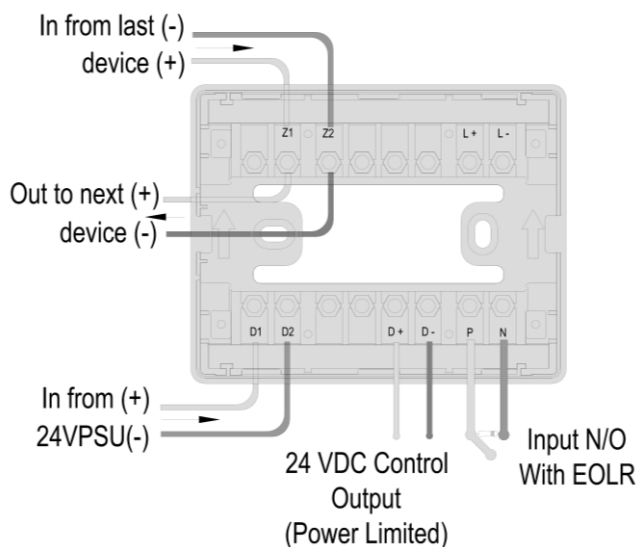


Figure 1: I/O Modules Structure



Terminal Description

- Z1 Signal In (+)
- Z1 Signal Out (+)
- Z2 Signal In (-)
- Z2 Signal Out (-)
- P connect detectors, Non-polarity
- N connect detectors, Non-polarity
- D1 External Power Supply In (+)
- D2 External Power Supply In (-)
- D+, D- Output Cable (Only for the use of TX7130)
- L+ Remote Indicator (+)
- L- Remote Indicator (-)

Figure 2: Wiring

3 Addressable Zone Monitor Unit Configuration

3.1 Preparation

The TX7930 handheld programmer is used to configure Addressable Zone Monitor Unit soft address and parameter. This tools are not included, must be purchased separately. The programmer is packed with twin 1.5V AA battery and cable, ready for usage once received.

It is mandatory for the commissioning personnel to have programmer tool in order to adjust the Unit conferring to the site situation and environmental requirements.

Program a unique address number for each device according to the project layout before placing from the Terminal Base.

Warning: Disconnect the loop connection whilst connecting to the handheld programmer.

3.2 Write: Addressing

1. Connect the programming cable to Z1 and Z2 terminals (Figure 3). Press **"Power"** to switch on the unit.
2. Switch-on the programmer, then press button **"Write"** or number **"2"** to enter Write Address mode (Figure 4).
3. Input the desire device address value from 1 to 254, and then press **"Write"** to save the new address (Figure 5).

Note: If display **"Success"**, means the entered address is confirmed. If display **"Fail"**, means failure to program the address (Figure 6).

4. Press **"Exit"** key to go back Main Menu. Press **"Power"** key to switch-off the programmer.

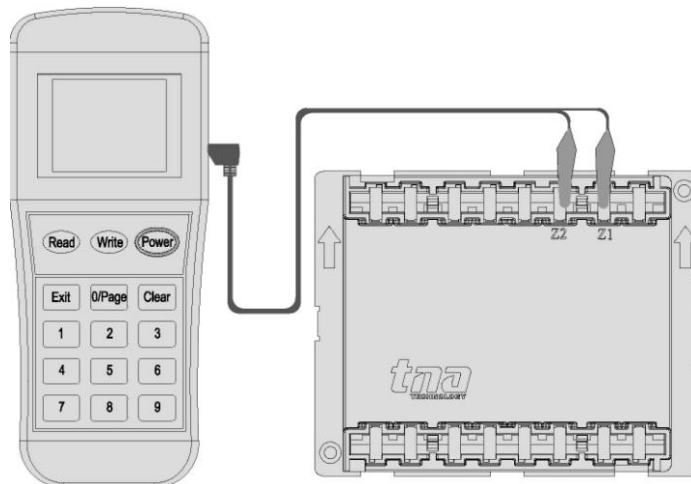


Figure 3: Programmer Connection Detail

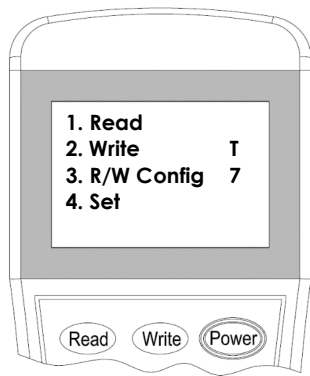


Figure 4

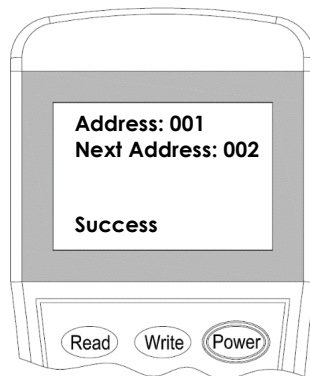


Figure 5

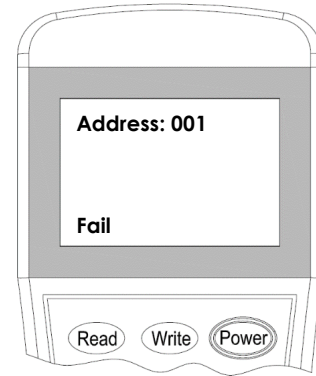


Figure 6

4 General Maintenance

1. Inform the suitable personnel before conducting the maintenance.
2. Disable Addressable Zone Monitor Unit on the control panel to prevent false alarm.
3. Do not attempt to repair the circuitry of the Addressable Zone Monitor Unit, it may affect the operation to respond to a fire condition and will void the manufacturer's warranty.
4. Use a damp cloth to clean the surface.
5. Notify again proper personnel after conducting the maintenance and make sure to enable the Addressable Zone Monitor Unit and confirm if up and running.
6. Perform the maintenance on semi-annually or depending on the site conditions.

5 Troubleshooting Guide

What you notice	What it means	What to do
Address not enrolling	The wiring is loose The address is duplicate	Conduct maintenance Re-Commission the device
Unable to commission	The damage the electronic circuit	Replace the device

Appendix I

Limitation of Interface Module

The Addressable Zone Monitor Unit cannot last forever. In order to keep the Addressable Zone Monitor Unit working in good condition, please maintain the equipment continuously according to recommendations from manufacturers and relative nation codes and laws. Take specific maintenance measures on the basis of different environments.

These Addressable Zone Monitor Unit contains electronic parts. Even though it is made to last for a long period of time, any of these parts could fail at any time. Therefore, test your Addressable Zone Monitor Unit at least every half-year according to national codes or laws. Any Addressable Zone Monitor Unit, fire alarm devices or any other components of the system must be repaired and/or replaced immediately as they fail.