TX7200

Addressable Input Module
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

Table of Content

1 Introduction

1.1 Overview

The TX7200 Addressable Input Module is used to acknowledge normally open monitor signal from interface equipment then sending communication signal to the control panel, ideally for monitoring sprinkler system, pressure switch, position switch, signal valves and other third party equipment such as conventional panel.

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 assembles make installation and maintenance more convenient to the installer. The unit incorporates an intelligent processor that provides automatic monitoring for both open and short circuit of the input signal line. The TX7200 Input Module 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
- Fire or Supervisory signal configuration
- Input cable monitored
- Normally open configuration
- LED status indicator
- Loop powered device
- Aesthetically pleasing design
- Surface mounting with fix base for simple installation

1.3 Technical Specification

• Listed	LPCB Pending
• Compliance	EN54-18:2005/AC2007
• Input Voltage	24VDC [16V to 28V]
• Current Consumption	Standby: 0.7mA, Alarm:1.2mA
• Protocol/Addressing	T&A, Value range from 1 to 254
• Input Relay	Normally Open dry contact
• Input Resistance	5.1Kohms/ ¼ W
• 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	155g (with Base), 85g (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 interface module 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 interfaces, each interface module is designed for specific application, it is essential to consider the requirement of both sides of the interface to avoid malfunction and typical fault scenario. The main caution is to ensure that the voltage rating of the equipment and interface module are compatible.

2.2 Installation and Wiring

1. Mount the interface module base on standard one 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 as shown in Figure two [2]. Always fit the supplied resistor at the end of the cable. Verify the device address then stick on the label before attaching the module. The sticker labels are available on the control panel.
3. Align the interface module and tabs and gently pushing the device until it locks into place.

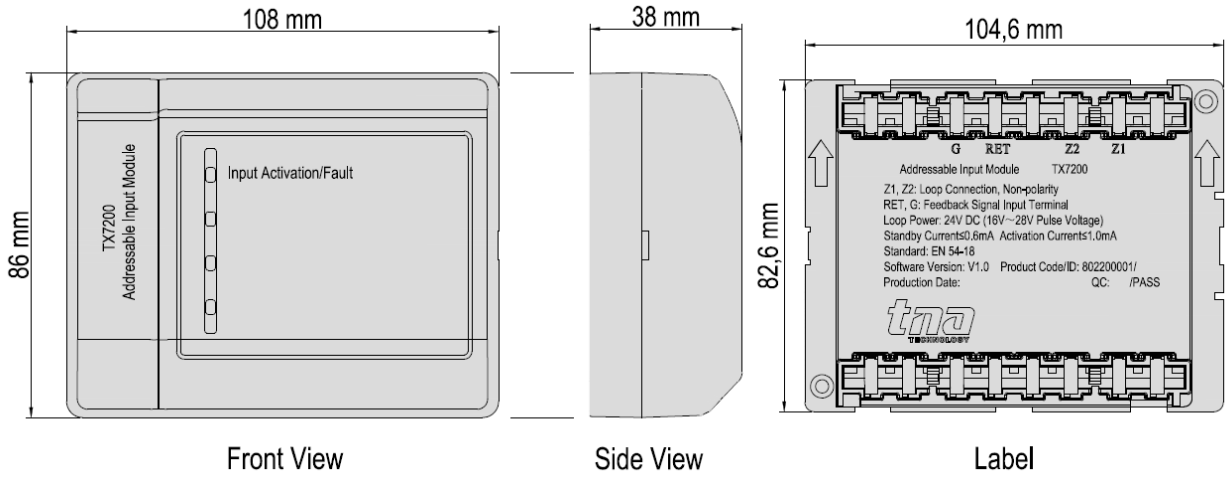
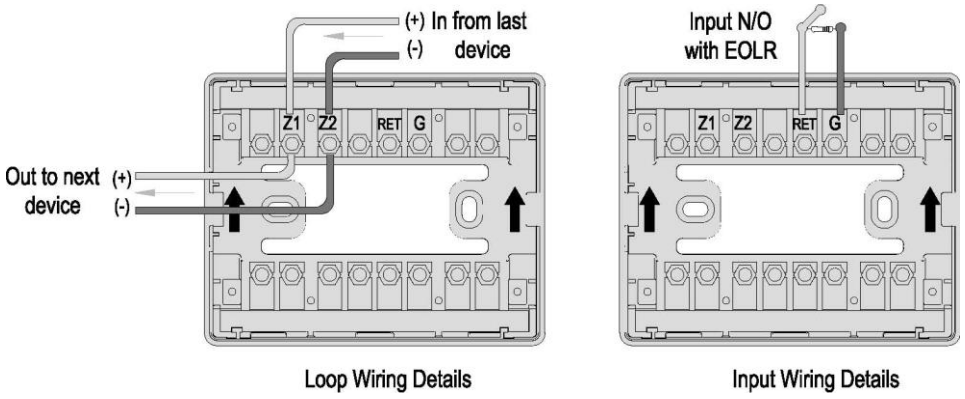


Figure 1



Terminal Description

Z1 Signal In (+)
Z1 Signal Out (+)
Z2 Signal In (-)
Z2 Signal Out (-)
RET Input Cable
G Input Cable
Note: Fit 5.1Kohms (1/4W) Resistor at the end of the cable.

Figure 2

4050100266-Rev1.2-0216
TANDA UK

3 Interface Module Configuration

3.1 Preparation

The TX7930 handheld programmer is used to configure interface module 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 enable to adjust the module 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 Device 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).

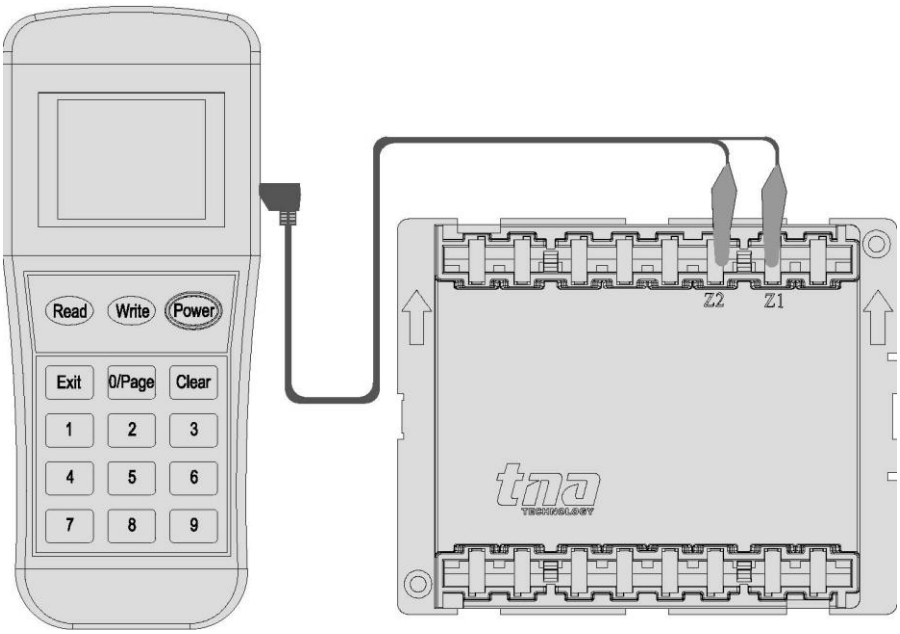


Figure 3

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.

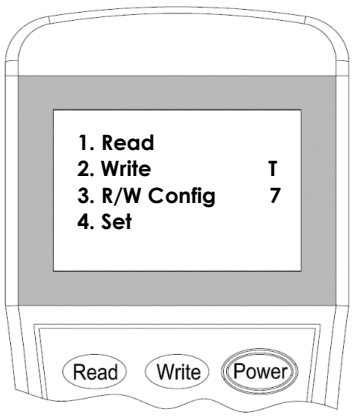


Figure 4

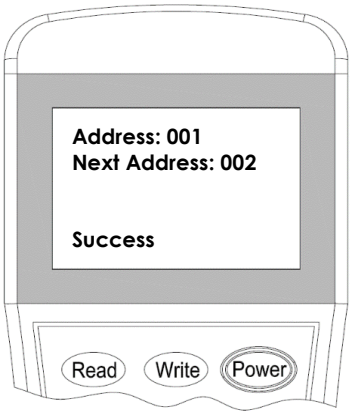


Figure 5

Figure 6

3.3 Read Configuration

1. Attach the programming cable Z1 and Z2 terminals (Figure 3). Press **"Power"** to switch on the unit.
2. Switch-on the programmer, then press button **"Read"** or **"1"** to enter to Read mode (Figure 7). The programmer will display the configuration after few seconds. (Figure 8).

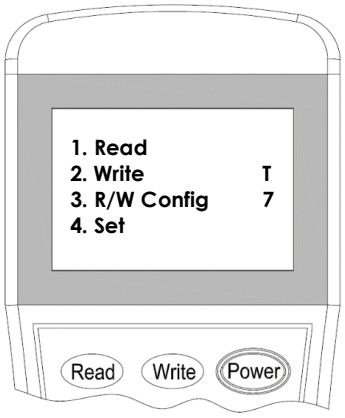


Figure 7

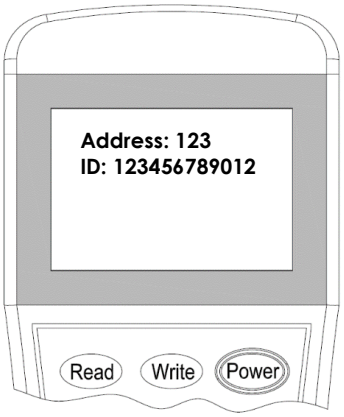


Figure 8

Read Description

Address: Unique number assigned
ID: Device serial number

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

4 General Maintenance

1. Inform the suitable personnel before conducting the maintenance.
2. Disable the interface module on the control panel to prevent false alarm.
3. Do not attempt to repair the circuitry of the interface module, 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 interface module 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 1

Limitation of Interface Module

The Interface Module cannot last forever. In order to keep the interface module 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 interface module 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 module at least every half-year according to national codes or laws. Any interface module, fire alarm devices or any other components of the system must be repaired and/or replaced immediately as they fail.