# TX7153

## Fire Hydrant Start Button
## Installation and Operation Manual

Product Safety

To prevent severe injury and loss of life or property, read the instruction carefully before installing the manual fire hydrant start button 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

The TX7153 fire Hydrant Start Button use a non-breakable plastic which is designed to press under pressure triggering the strart button into an alarm condition, with LED indicator mounted onto the front face to simplify the location of an operated start button. Safe to press and no hammer is required. The protected flap on the lower part is used for reset through supplied special tool.

In the event of fire, once it is pressed, the red LED goes on indicate the start button status and parallel sending communication signal to the control panel. Fire alarm controller sends a command signal to light up the green LED indicator, after confirming that the fire pump has been started.

## 1.2 Feature and Benefits

- Using microprocessor technology
- Digital addressing
- Non-breakable plastic and hammerless
- Safe to operate and easy to reset
- Indoor application

## 1.3 Technical Specification

| | |
|---|---|
| • Input Voltage | 24VDC [16V to 28V] |
| • Current Consumption | Standby :0.65mA, Alarm: 1.50mA |
| • Protocol/Addressing | T&A, Value range from 1 to 254 |
| • Indicator | Red LED / Steady On-when pressed. Periodically Flash during patrol inspection, Flashing cycle: about 6 ms<br>Green LED/Steady On-when fire pump has been started |
| • Material / Colour | Fireproof ABS / RED Glossy finishing |
| • Dimension | 90 mm x 90 mm x 34 mm |
| • Weight | 90.5g (with Base) |
| • Operating Temperature | -10°C to +55°C |
| • Ingress Protection Rating | IP43 |
| • Humidity | 0 to 95% Relative Humidity, Non condensing |

# 2 Installation

## 2.1 Installation Preparation

This fire hydrant start button 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.

## 2.2 Installation and Wiring

1. Before installing the equipment, it is necessary to cut off the power supply of the circuit and confirm that all the bottom shells have been installed firmly and that the connecting wires of each bottom shell are correct.
2. Fix the base of the fire hydrant start button to wall as shown in Figure 1.Follow the arrow mark for the correct position. Do not over-tighten the screws otherwise the base will twist.
3. Connect the wire in terminal as shown in Figure 2. Verify the device number using handheld programmer then stick on the label before attaching the start button. The sticker labels are available on the control panel.
4. Align the start button and tabs and gently pushing the start button until it locks into place.
5. The fire hydrant button base and the front cover are pluggable., which can be separated by

using a 3.5mm slotted screwdriver as shown in Figure 3.

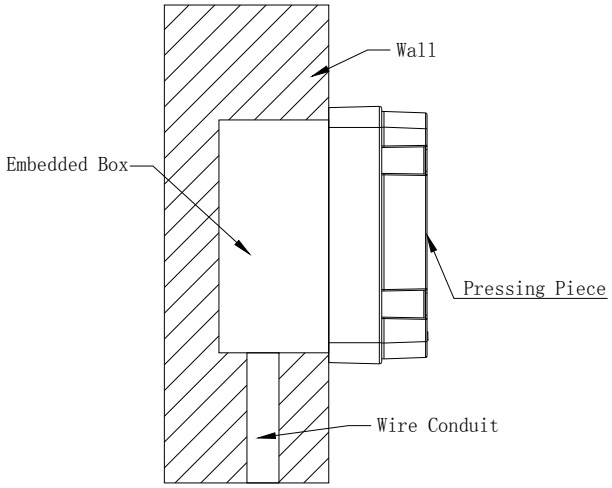


Figure 1

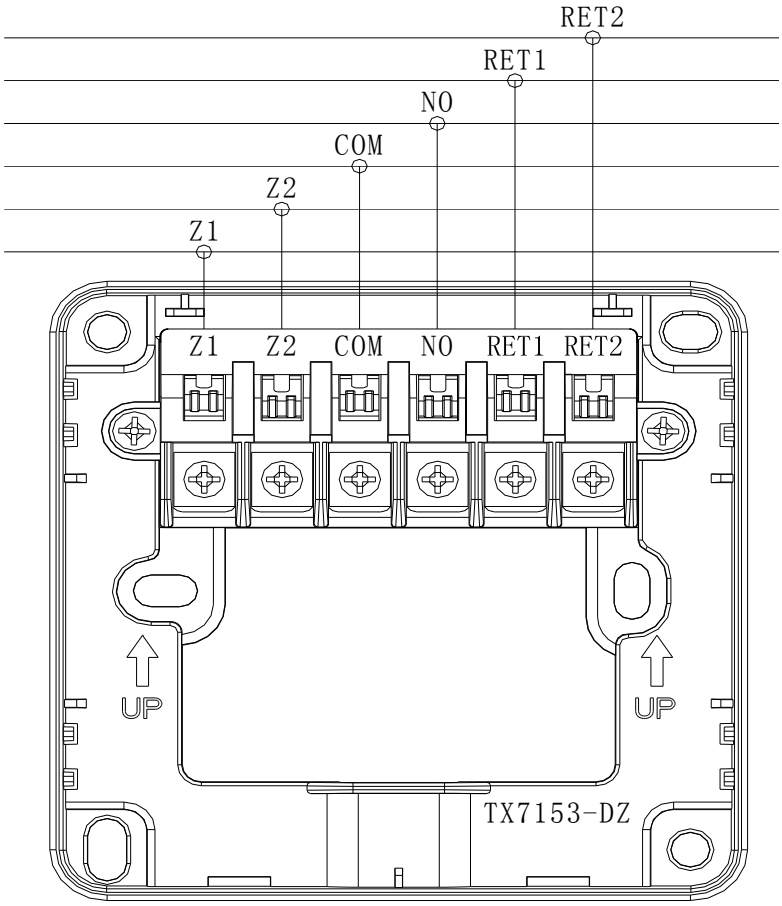


Figure 2

Z1、Z2：Connection with signal bus, nonpolarity.

NO、COM：DC30V/100mA output terminal.Can output signal to control the external device, when the button is pressed.

RET1、RET2：Answer signal input terminal for pump starting, nonpolarity.

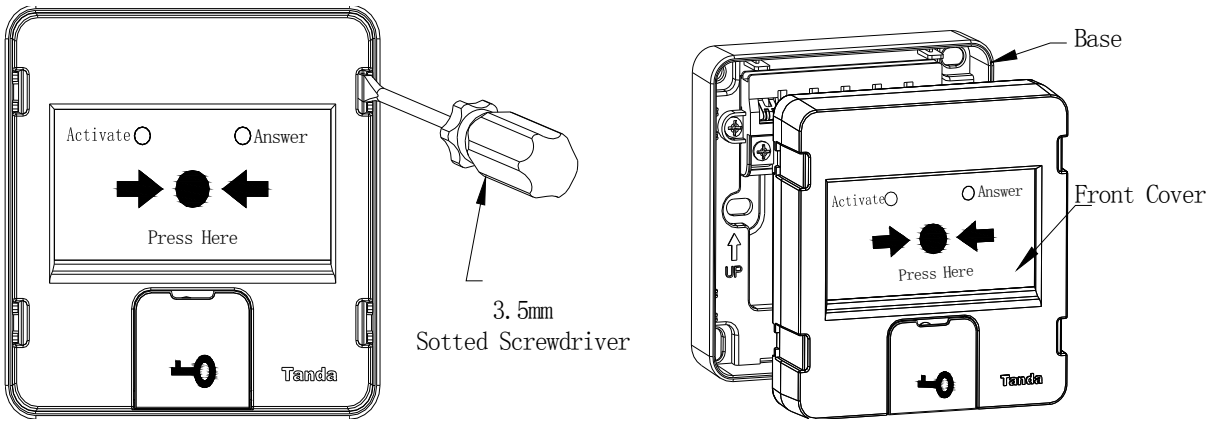


Figure 3

## 3 Fire Hydrant Start Button Configuration

### 3.1 Preparation

The handheld programmer is used to configure the soft address of fire hydrant start button. This tool is not included, must be purchased separately. The programmer is packed with twin 1.5V AA battery and cable, ready for usage once received.

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 Addressing

1. Connect the programming cable to ZI+ and ZI-(or ZO+ and ZO-) terminals of fire hydrant start button. 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).

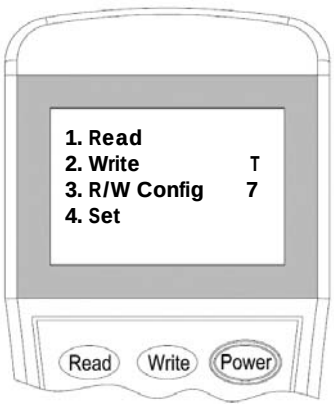


Figure 4


Figure 5


Figure 6

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

### 3.3 Read Configuration

1. Attach the programming cable to ZI+ and ZI-(or ZO+ and ZO-) terminals of fire hydrant start button. 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).
3. Press **"Exit"** key to go back Main Menu. Press **"Power"** key to switch off the programmer.

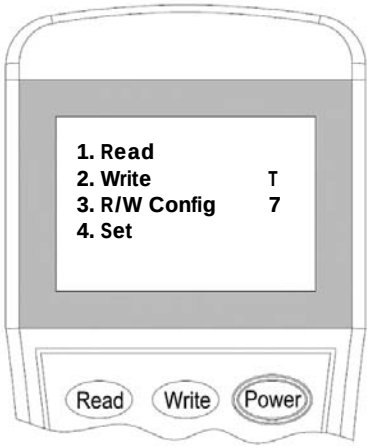


Figure 7


Figure 8

**Read Description**

**Address**: Unique number assigned
**ID**: Device serial number

## 4 General Maintenance

1. Inform the suitable personnel before conducting the maintenance.
2. Disable the fire hydrant start button on the control panel to prevent false alarm.
3. Do not attempt to adjust or modify the fire hydrant start button, it may affect the ability of the device to respond to a fire condition and will void the manufacturer's warranty.
4. Use a damp cloth to clean the call point.
5. Notify again proper personnel after conducting the maintenance and make sure to enable the fire hydrant start button and confirm if up and running.
6. Perform the maintenance on semi-annually or quarterly depending on the site conditions.

### 4.1 Resetting Fire Hydrant Start Button

1. Ensure the fire is cleared before resetting the start button.

2. Open the protected flap and insert the supplied reset key into the key hole.
3. Rotate the key clockwise position up to 90-degree angle. Then forcedly push the key inside until the plastic plate completely return to its normal position.
4. The fire hydrant start button resets the product program after receiving the reset command from the mainframe.

## 5 Troubleshooting Guide

| What you notice | What it means | What to do |
|---|---|---|
| Address not enrolling | The wiring is loose<br>The address is duplicate | Conduct maintenance<br>Re-Commission the start button |
| Unable to commission | The damage the electronic circuit | Replace the start button unit |
| Unable to press or reset | The damage mechanical part | Replace the start button unit |

## Appendix 1

### Limitation of Fire Hydrant Start Button

The fire hydrant start button cannot last forever. In order to keep the start button 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.

This device 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 fire hydrant start button weekly, different one once a week or least every half-year according to national codes or laws. Any fire hydrant start buttons or any other components of the system must be repaired and/or replaced immediately as they fail.