TN7100

Addressable Fire Extension Telephone
Installation and Operation Manual

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1 Introduction

1.1 Overview

TN7100 Addressable Fire Extension Telephone （called the extension）is a bus communication device special for fire protection system. The extension can transmit and receive signals with a fire telephone control panel. It is suitable for hotels, restaurants, office buildings, teach buildings, banks, warehouses, libraries, computer rooms and switching rooms.

The extension can constitute a fire telephone system together with TN7000 Fire Telephone Control Panel, TN7101 Fire Telephone Mobile Handset, TN7300 Addressable Fire Telephone Jack Socket and TN7301 Fire Telephone Jack Socket.

1.2 Features

1. Non-polarized two-wire for communication and talk, cost effective for wiring.
2. Using electronic addressing.
3. Lifting the extension can call a fire telephone control panel.
4. As the extension receives a call from a fire telephone control panel, it will ring to remind customers of answering it.

1.3 Technical Specification

Part Number	**TN7100**
Standard	
Compliance	GB 16806-2006
Specification	
Operating Voltage	24V DC（Telephone bus 18V～28V）
Operating Current	Standby Current≤600uA Talk Current ≤25mA
Programming	Electronically addressing for one code
Wiring	Connect with the fire telephone control panel through non-polarized two-wire
Voice Frequency	300Hz～3400Hz
Physical	
Colour	Color of the Enclosure: red
Dimension	L:204.0 x W:80.0 x H:56.7 mm
Weight	0.35 Kg
Environmental	
Operating Temperature	-10°C to +55°C
Relative Humidity	0 to 95% Relative Humidity, Non condensing

1.4 Structure

Fig. 1 shows dimensions and mounting of the extension（unit: mm）.

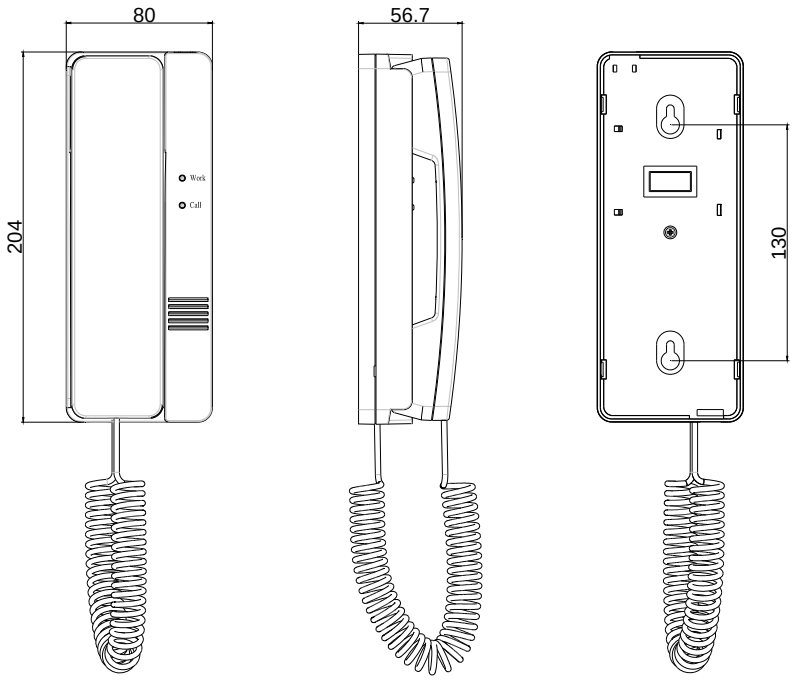

Fig. 1

2 Installation and Cabling

2.1 Mounting

The extension is wall mounted as shown in Fig. 2.

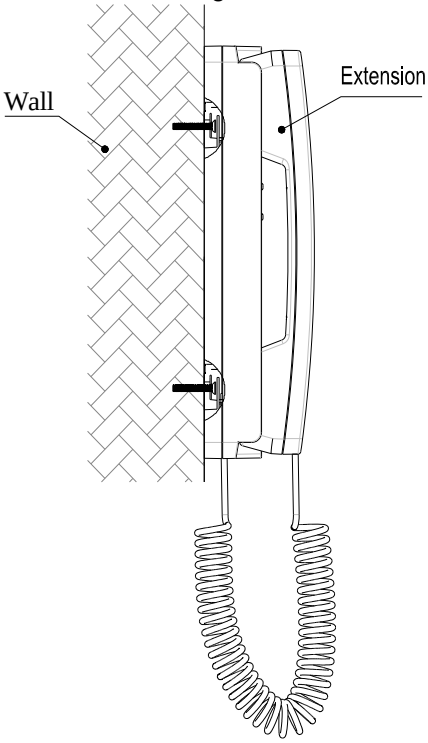

Fig. 2

2.2 Connection Terminals:

telephone crystal plug

2.3 Wiring Requirements:

Telephone Bus: RVVP-2×1.5mm² or above shielded wire are used, laid through a metal pipe or flame retardant PVC pipe.

3 Operation

1. Work LED: It flashes red in polling every about 3.5 seconds.
2. Call LED: It flashes red as an extension is being called by a fire telephone control panel.
3. Buzzer: It rings as an extension is being called by a fire telephone control pane.
4. Programming: A hand held programmer produced from our company can be used to program the extension in the field. Refer to the hand held programmer manual for details.
5. Commission: Connect the extension with an address with the telephone bus of the fire telephone control panel and then make registration. The Work LED should flash in polling. The extension should have a ring in 3 seconds as is it being called by the fire telephone control panel. After lifting the extension, conversation with the fire telephone control panel can be received and transmitted.

4 Shipment and Storage

The Jack socket should be well packaged and gently taken to avoid damage while transporting, handling and storing. The environment for storing Jack socket should be ventilated and dry. However, open storage is not allowed in any way.

5 Cautions

1. Disconnect the power supply of the fire telephone control panel before installing the extension.
2. After installing the Jack socket, please notify the relevant authority before testing or maintaining.
3. Talk test of the Jack socket should be done regularly for its normal working.