



NP-FY200 Photoelectric Smoke Alarm User Manual

Product Information

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Safety Information

Please read all the safety information carefully before using.

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- Correctly install and maintain the detector. Although the detector can help save lives by providing an early warning of a fire, they are not a substitute for an insurance policy. Home owners should have adequate insurance to protect their lives and properties.

- Install the detector according to the instructions in this manual.

- Please do not place the device in areas that children can touch.

- The detector has multiple power supplies. Please disconnect all power supplies during maintenance.

- Please power off during device wiring and installation.

- Do not place exposed flame sources, such as lit candles, on the device.

- To ensure the normal detection of the detector, do not use a large amount of items such as mousse, insecticides, diluents, etc. that can produce gel like suspended solids near the detector.

- To reduce the risk of fire or electric shock, do not let indoor equipment be exposed to rain or moisture.

- Please do not drop objects onto the device or vigorously vibrate the device, and keep the device away from locations with magnetic field interference. Avoid installing the device in a place that is prone to surface vibration or impact.

- This product is only used to detect the gas concentration in the surrounding environment of the equipment. When the product is in good operating condition, if gas occurs leakage, the detector can emit sound and light alarm signals.

- If there is any doubt about the cause of the alarm, it should be assumed that the alarm is caused by the hazardous level of carbon monoxide and residential areas should be evacuated.

- Carbon monoxide is harmful to the body. This device may not be able to prevent the chronic effects of carbon monoxide exposure, and it may not fully protect individuals in special danger.

- If there is any doubt about the cause of the alarm, it should be assumed that the alarm is caused by the hazardous level of carbon monoxide and residential areas should be evacuated.

- Keep the packing so that in case of any problem, pack the detector in its original packing and send it to the agent or return it to the factory for disposal.

- If the detector does not work properly, contact the dealer or the nearest service center. Never attempt to disassemble the detector yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

BATTERY INSTALLATION and REPLACEMENT

Install Battery

Tear off the battery insulation, put the battery into the battery holder and insert it to the end.

Replace Battery

Remove the battery from battery holder and replace it with the battery met standard and purchased by a regular manufacturer after 30 seconds. Test the detector for correct operation using the self-check button whenever the batteries are replaced after re-fitting the detector onto the battery holder. If the detector is not working properly, please contact the technical support.

- CAUTION:** Risk of explosion if the battery is replaced by an incorrect type.
- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
- Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
- Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.
- Dispose of used batteries according to the instructions.
- identifies the battery holder itself and identifies the positioning of the cell(s) inside the battery holder.
- identifies the positive terminal(s) of equipment which is used with, or generates direct current. identifies the negative terminal(s) of equipment which is used with, or generates direct current.

UD412668

English

Diagram Reference

1 Cautions

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- Correctly install and maintain the alarm. Although smoke alarms can help save lives by providing an early warning of a fire, they are not a substitute for an insurance policy. Home owners should have adequate insurance to protect their lives and property.
- To prevent fire hazard or electric shock, the alarm shall be kept from rain or moisture.
- Do not drop the alarm or subject it to physical shock, and do not expose it to high electromagnetic radiation. Avoid mounting the alarm in places subject to vibration or shock.
- To ensure the normal detection of the alarm, do not use hair spray, insecticide, diluent and other substances that can produce colloidal suspension near the alarm.
- No naked flame sources, such as lighted candles, should be placed on the equipment.
- The product is a photoelectric smoke alarm, which can send out audible and visual alarm signals in the event of fire, but cannot extinguish fire.
- Keep the packing so that in case of any problem, pack the alarm in its original packing and send it to the agent or return it to the factory for disposal.
- If the alarm does not work properly, contact the dealer or the nearest service center. Never attempt to disassemble the alarm yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

2 Introduction

NP-FY200 Photoelectric Smoke Alarm (hereinafter referred to as "alarm") can detect smoke in the early stage of a fire hazard, and provide warnings by sending out audible and visual alarm signals. The alarm is designed for residential and institutional applications including shops, family dwellings.

- Provide early warnings of possible fire.
- Lithium battery-powered, ten-year battery life under normal operation.
- Supports test feature to verify whether the LED indicator and the buzzer are working properly.
- Supports alarms indicating faults: low voltage alarm, tamper alarm, maze dirty alarm and alarm indicating sensor fault.

3 Appearance

- Buzzer
- LED Indicator
- Test/Hush Button
- Connector (Device)
- Battery Base
- Tamper

4 LED Indicator and Buzzer

Condition	LED Indicator	Buzzer
Standby	The green LED flashes every 90 seconds.	Off
Smoke/Temperature Alarm	The red LED is on.	Rapid beeps
Low Voltage	The yellow LED flashes every 40 seconds.	1 beep every 40 seconds
Tamper Alarm	The green LED flashes rapidly for three times.	Off
Maze Dirty	The red and green LED flashes alternatively every 100 seconds.	Off
Temperature Sensor Fault	Every 100 seconds, the LED flashes in sequence according to "red-green-green".	Off

Note: When the maze dirty alarm is triggered, contact the technical support.

5 Installation

A. Notification

- Install the alarm according to the instructions in this manual.
- To prevent injury, the alarm must be securely attached to the floor/wall in accordance with the installation instructions.
- Before installation, confirm that the alarm and other mounting parts in the box are in good condition.
- Do not install the alarm in new or renovated buildings until all work is completed. (Dust and debris from building work can contaminate the smoke chamber).
- Install multiple alarms if the installation location (such as ceiling) is longer than 32.81 ft (10 meters).
- Where Not to Install:
 - Damp and humid areas such as kitchen, hot water heater, and bathroom.
 - Forced air supply ducts for heating or cooling, ventilating fans, or other high air flow areas.
 - Dusty, dirty, or insect infested areas.
 - Hot and greasy areas such as stoves.
 - Where drapes and other objects will block the sensors.
 - Within 4.92 ft (1.5 meters) of fluorescent lights.
 - Dead air spaces such as apexes of ceilings, corners of the rooms.

B. Mounting Locations

- When mounting an alarm on flat ceilings, locate it at a minimum of 19.69" (500 mm) from the side wall.
- When mounting an alarm on sloped or diamond-shaped ceilings (slopes measuring less than 30 degrees), locate it at a distance of 19.69" (500 mm) from the side wall.

C. Mounting Parts

- Alarm × 1
- Battery × 1
- Mounting Template × 1
- Screw Pack × 1
(Plastic Expansion Sleeve × 2, KA3_5x20 Self-Tapping Screw × 2)

Note: Actual mounting parts may vary from schematic diagrams shown in figure C.

D. Mounting Preparation

- Back Cover
- Buckle
- Battery
- Connector (Battery)
- Battery Base
- Connector (Device)

a. Squeeze the buckle inward with both fingers in the direction indicated by the hand gesture on the back of the alarm, and remove the back cover.

b. Insert the connector (battery) into the connector (Device), put the battery into the battery base in the direction shown in the figure and insert it to the bottom. And then place the communication module on the back of the alarm.

c. Short press the test/hush button to enter the test mode. When the buzzer beeps for 5 times and the red LED flashes, it indicates that the buzzer and indicator are working properly and the alarm can be installed.

E. Mounting

- Mounting Template
- Plastic Expansion Sleeve
- Mounting Base
- Self-Tapping Screw
- Device Body

a. Locate the punch holes on the ceiling according to the mounting template.

b. Insert the plastic expansion sleeve into the punch hole, align the U-shaped hole corresponding to the mounting base with the plastic expansion sleeve, and then fix the mounting base with self-tapping screw.

c. Rotate the alarm clockwise, and fix the alarm to the mounting base to finish the mounting.

6 Features

Smoke/Temperature Alarm

In standby mode, when the following conditions occur, the alarm enters the alarm mode.

- The smoke particles in the smoke sensor reach a specified concentration.
- The indoor temperature reaches 134.6 °F (57 °C).
- The indoor temperature rises by 46.4 °F (8 °C) in a minute.

Alarm Mode: The buzzer will beep, and the red LED flashes.

Test

Verify that the buzzer and LED indicator are working properly.

In standby mode, short press the test/hush button, the alarm enters the test mode; after the test is completed, it automatically resumes to the standby mode.

Test Mode: The buzzer beeps for 5 times, and the red LED flashes.

Hush

In alarm mode, short press the test/hush button to silence the alarm (the hush period is 60 seconds).

Hush Mode: The buzzer will stop beeping, and the red LED flashes.

Hush Period: After the alarm is silenced, if the smoke concentration that caused the alert continues, the alarm will reactivate in 60 seconds.

Reset

When the alarm is in hush mode (when red LED flashes and the buzzer stops beeping), short press the test/hush button again, the alarm resumes to the standby mode.

In alarm mode, if the smoke dissipates, the alarm mode will be deactivated and the alarm will automatically resume to the standby mode.

7 Specification

Parameters	Specification
Model	NP-FY200
Product	Photoelectric smoke alarm
Approval	Compels with EN 14604: 2005 + AC: 2008
Smoke Sensor	Photoelectric
Alarm Sound Level	≥ 85 dB@3 m (A-weighted)
Alarm Mode	Audible & visual alarm
Power Supply	3 VDC , battery CR17450 (with cable)
Standby Current	10 μA MAX
Alarm Current	35 mA MAX
Temperature	-10 °C to 55 °C (14 °F to 131 °F)
Humidity	≤ 95% relative humidity (RH)
Battery Life	Ten-year battery life under normal operation
Dimensions (φ×H)	120 mm × 56 mm (4.7" × 2.2")
Weight	202 g (0.45 lb)

