

AT-EM01 Explosion-Proof Fire Hydrant Button (Non-Coded Type) Installation and Operation Manual



1. Product Overview

The AT-EM01 Explosion-Proof Fire Hydrant Button is a non-coded, switch-type alarm button. Its explosion-proof performance meets the requirements of the GB3836 and GB12476 series standards. The product has been certified by nationally accredited testing institutions,

This fire hydrant button is designed for use in Zone 1 and Zone 2 hazardous areas with explosive gas atmospheres of Group IIA, IIB, or IIC, and Temperature Classes T1 to T6. It is also suitable for Zone 21 and Zone 22 hazardous areas with combustible dust.

As an essential component in explosion-proof fire alarm systems, the AT-EM01 operates in conjunction with devices like fire alarm control panels. In the event of a confirmed fire, manually pressing the button can either directly activate the fire pump control system or send a pump start request signal to the fire alarm control panel.

2. Product Features

Equipped with a dedicated key for resetting and a self-locking mechanism

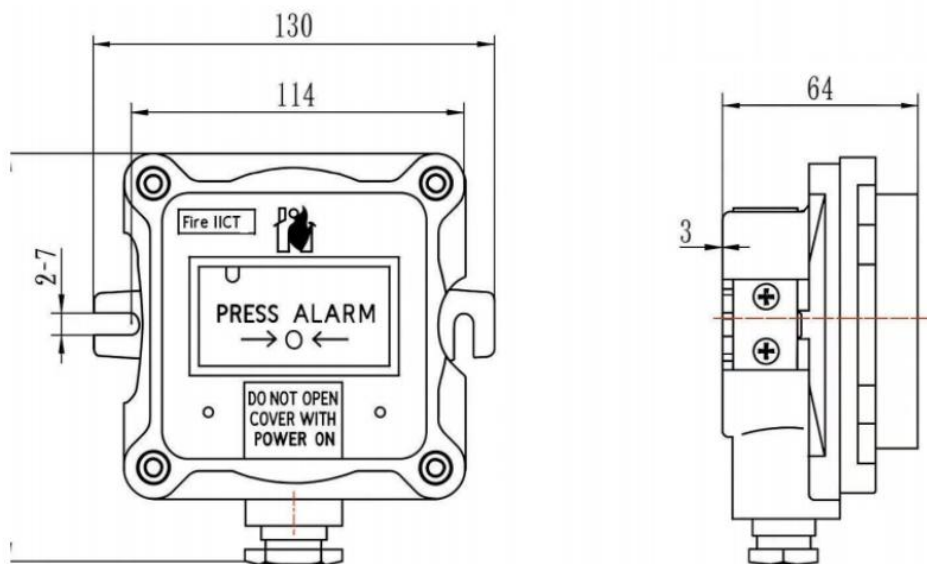
Features location and status indication. The indicator is green during normal standby, providing visibility in dark conditions. Upon activation, the indicator turns red, signaling an alarm state.

Compatible with fire alarm control panels from various domestic and international manufacturers.

3. Technical Specifications

Item	Specification
Explosion-proof Rating	Exdb IIC T6 Gb / Ex tb IIIC T85°C Db
Operating Voltage	DC 24V
Contact Capacity	OUT-1: Passive Normally Open (NO) Contact; 0.5A OUT-2: Relay Normally Open (NO) Contact; 7A
Indicator	Standby: Green Alarm: Red
Ingress Protection (IP) Rating	IP45 / IP65
Operating Temperature	-20°C to +50°C
Operating Relative Humidity	≤95% RH (Non-condensing)
Operating Atmospheric Pressure	80 kPa to 110 kPa
Conduit Entry Thread	G 3/4"
Weight	1 kg

4. Outline Dimension Diagram



5. Installation and Wiring

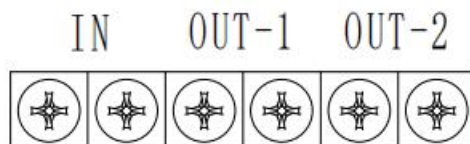


Wall Mounting: Secure the button to the wall using M6 screws through its mounting brackets. The recommended installation height is 1.5 meters from the bottom of the button to the floor.

Post Mounting: Mount the button on a dedicated post fixed to the ground. Installation requirements remain the same as for wall mounting.

Optional Accessories: A rain shield and an anti-tamper shield are available as optional accessories.

Wiring: Connect the cables to the terminals as shown in the wiring diagram.



IN: DC 24V Power Input (Non-polarized)

OUT-1: Passive NO Contact Output

OUT-2: Relay NO Contact Output

Cable Gland:

For Group IIB applications: Uses a compression seal gland with a sealing ring.

For Group IIC applications: Uses a gland with a sealed filling compound.

6. Important Precautions

DO NOT disassemble the product while it is powered on in hazardous areas.

During installation, avoid damaging the flameproof joint surfaces and keep them clean. Tighten the flameproof joint screws evenly and ensure no foreign objects are present on the sealing surfaces.

Perform regular inspections during long-term use to ensure proper functionality. If the unit fails or is damaged, it must be serviced by qualified personnel.