

DHI-HY-A0220E

Addressable Explosion-proof Heat Detector



- Certified by CE
- The product has an explosion-proof rating of Exd ib IIC T6 Gb
- The two-wire, non-polar design allows for quick and easy installation, making maintenance straightforward
- It features automatic sensitivity calibration and supports temperature and humidity compensation, ensuring stable operation over the long term
- The device is designed with a built-in isolation circuit and safety barrier, ensuring safe operation in environments containing flammable and explosive gases or dust

System Overview

The DHI-HY-A0220E Addressable Explosion-proof Heat Detector consists of two primary components: a temperature sensing probe and a safety barrier. The temperature sensing probe employs a polarity-free two-wire system and can be connected in any configuration to the alarm bus of various fire alarm control panels manufactured by our company. The safety barrier is designed to be explosion-proof and features an aluminum alloy housing, ensuring excellent mechanical strength and easy installation.

Functions

Reliable communication

It utilizes a high-performance microprocessor, ensuring stable operation.

Ultra-low power consumption

The static current and alarm current are extremely low, reaching as low as approximately 0.2mA.

Sensitive detection

Built-in high-sensitivity temperature sensor for fast and accurate temperature detection.

High durability

Intrinsically safe and explosion-proof design, featuring excellent resistance to high humidity and strong corrosion.

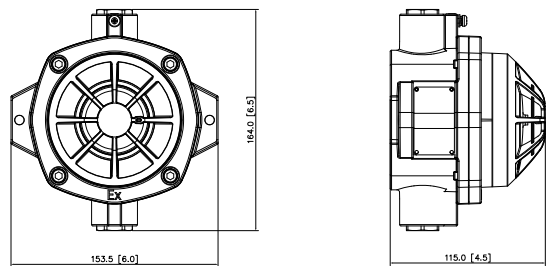
Scene

Used in high-risk areas such as petroleum, chemical, coal mining, and power generation, where flammable and explosive gases or dust are present, to ensure early fire hazard warning and safety in dangerous environments.

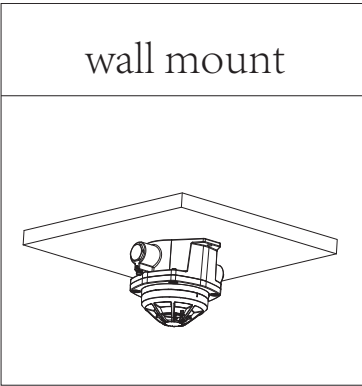
Technical specification

Working Voltage	DC24V
Current	Monitoring current: $\leq 120\mu\text{A}$ Alarm current: $\leq 200\mu\text{A}$
Indicator	Red Polling: Flash 6 seconds Alarm: Remain lit Fault: Flash 2 seconds
Explosion-proof Rating	Exd ib IIC T6 Gb
Protection Level	Explosion-proof section: IP67 Intrinsic safety section: IP43
Temperature measurement range	Fixed temperature measurement: 62°C Air temperature increase rate: 1 - 30 K
Address Range	1-254
Communication Distance	≤ 1500 m
Operating Temperature	-10°C to +50°C (+14°F to +122°F)
Storage Temperature	-20°C to +65°C (-4°F to +149°F)
Operating Humidity	$\leq 95\%$ RH (no condensation)
Material	Main body: ABS Explosion-proof section: Die-cast aluminum ADC12
Color	Main body: White Explosion-proof section: Red
Dimensions	Main body: $\Phi 100.0$ mm $\times$ 50.0 mm (with base) Full product: 153.5 mm $\times$ 154.0 mm $\times$ 115.0 mm
Weight (with base)	1.3 kg
Certifications	CE

Dimensions (mm/inch)



Installation



Ordering Information

Type	Model	Description
Addressable Explosion-proof Heat Detector	DHI-HY-A0220E	Addressable Explosion-proof Heat Detector