

DHI-HY-AA340R

Addressable Natural Gas&LPG Detector



- 4W-B Natural Gas&LPG detector, integrated dry contact relay
- Optional dry contact signal with selectable NO/NC
- Optional gas type with selectable Natural Gas/LPG
- Non-loosening screws on base terminal for easy installation
- Contacts material is highly acid-resistant and rust-resistant
- CE certified

System Overview

Addressable gas detector DHI-HY-AA340R is a safety device monitoring ambient methane (CH_4) or propane (C_3H_8) concentration (mutually exclusive configuration). Triggers alarms upon reaching preset thresholds and initiates fire suppression systems via integrated control loops to mitigate explosion risks, ensuring personnel safety and property protection.

Gas detectors are safety devices for continuous monitoring of ambient Natural Gas or LPG concentrations. Upon detecting leaks exceeding preset thresholds, they trigger alarms and linkage the fire device through fire alarm system—to prevent explosions and protect personnel/property.

Functions

High Sensitivity Detection

Incorporates pellistor sensors to precisely identify gas leaks, triggering alarms at 8% LEL ($\pm 3\%$ LEL accuracy threshold).

Selectable Relay Output Types

Jumper-selectable dry contact signal type (NO or NC).

Selectable Gas Types

Jumper-selectable gas type Natural (Gas or LPG).

Short Warm-up Time

This gas detector achieves warm-up times below industry averages, enabling faster operational readiness compared to mainstream alternatives.

Two-wire power supply

This gas detector achieves warm-up times below industry averages, enabling faster operational readiness compared to mainstream alternatives.

Two-wire and Polarity-free Design

Two-wire polarity-free design significantly simplifies installation and maintenance operations.

Technical Specification

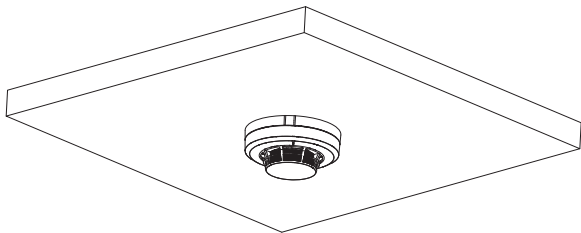
Working Principle	Natural Gas (methane) or LPG (propane)
Operating Voltage	DC 24V
Operating Current	Static current: $\leq 30\text{mA}$ Alarm current: $> 35\text{mA}$
Alarm Mode	Indicator light alarm
Operating Temperature	-10°C to $+55^{\circ}\text{C}$ ($+14^{\circ}\text{F}$ to $+131^{\circ}\text{F}$)
Operating Humidity	$\leq 95\%$ RH (no condensation)
Dimensions	$\Phi 100\text{ mm} \times 46.3\text{ mm}$ ($\Phi 3.94" \times 1.82"$)
Weight	105 g (0.231 lb)
Color	White
Installation	Detection of methane: Ceiling Mount (Distance from roof $\leq 30\text{cm}$) Detection of propane: Wall mount (Distance from the ground $\leq 30\text{cm}$)
Detection Capability	Detection range of 0% to 100% LEL Alarm threshold: $8\% \pm 3\%$ LEL
Certification	CE

Scene

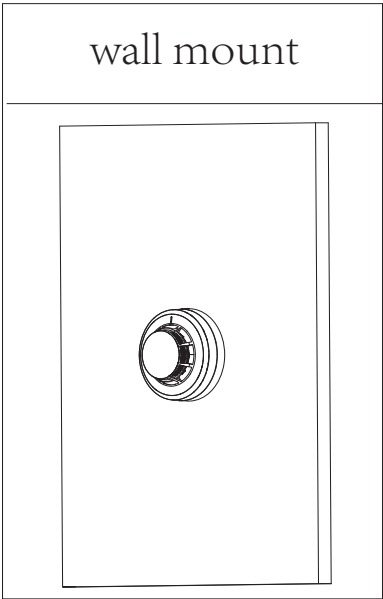
Designed for industrial and commercial premises to monitor methane/propane leaks in real-time, preventing fire and explosion hazards.

Installation

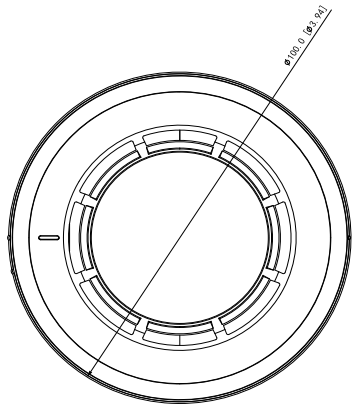
ceiling mount



wall mount



Dimensions (mm/inch)



Ordering Information

Type	Model	Description
Addressable Natural Gas&LPG Detector	DHI-HY-AA340R	Addressable Natural Gas&LPG Detector