User Manual - Dahua DHI-HY-LD413A-I

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1. Introduction

The **Dahua DHI-HY-LD413A-I** is an **adapter unit** used alongside the **DHI-HY-LD413A-P termination unit**, designed to work with **conventional, outdoor, anti-corrosion, and explosion-proof temperature sensor cables**. Its primary function is to detect **temperature fluctuations in linear heat cables** and generate alarm or fault signals when abnormalities are detected.

It is ideal for industrial applications such as **temperature detection in cable trays, transformers, mining conveyor belts, petrochemical storage tanks, and reaction vessels**.

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2. Key Features

- **Accurate Detection**: Fast response capability and reduced false alarms.
- **Durable Material**: Made of **aluminum**, resistant to impacts, drops, and vibrations.
- **Easy Installation**: Wall-mount design for seamless integration.
- **Wide Compatibility**: Supports various cables and adapts to different temperature environments.
- **IP66 Protection**: Resistant to dust and water, ideal for harsh environments.
- **Visual Alarm Indicators**: LED indicators for real-time monitoring of device status.

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3. Installation

3.1. Prerequisites

Before installation, ensure you have:

- A suitable environment with the recommended temperature conditions.
- A secure mounting bracket for wall installation.
- Connection to a **DC 24V** power source.
- Compatible temperature sensor cables.

3.2. Installation Procedure

1. **Mount the Device**: Secure the adapter unit to the wall using appropriate brackets.
2. **Electrical Connection**: Connect the device to a **DC 24V** power source.
3. **Sensor Connection**: Link the temperature sensor cables to the adapter unit.
4. **Status Verification**: Power on the device and ensure the LED indicators function correctly.

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4. Usage and Maintenance

- **Status Monitoring**: Periodically check the **alarm (red), fault (yellow), and standby (green)** indicators.
- **Regular Cleaning**: Keep the unit free from dust and moisture to ensure proper operation.
- **Connection Check**: Ensure cables are securely installed and properly adjusted.
- **System Testing**: Conduct regular tests to verify detection accuracy.

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5. Troubleshooting

Issue	Possible Cause	Solution
Does not power on	Incorrect power supply	Check connection to **DC 24V**

Constant alarm	Incorrect sensor wiring	Check and adjust connections
Yellow indicator on	System fault	Restart and check configuration

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6. Technical Specifications

- **Model**: DHI-HY-LD413A-I
- **Operating Voltage**: DC 24V
- **Standby Current**: ≤ 20mA
- **Alarm Current**: ≤ 35mA
- **Fault Current**: ≤ 25mA
- **LED Indicators**:
  - **Green**: Standby mode
  - **Red**: Alarm active
  - **Yellow**: System fault
- **Operating Temperature**: –45°C to +60°C
- **Compatible Cable Temperatures**: 68°C, 88°C, 105°C, 138°C
- **Protection**: IP66
- **Material**: Aluminum
- **Dimensions**: 127 mm × 85 mm × 58 mm
- **Weight**: 350 g

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7. Warranty and Support

For technical assistance and updates, refer to Dahua’s official documentation or contact authorized technical support.