User Manual - Dahua DHI-HY-LD413A-P

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1. Introduction

The **Dahua DHI-HY-LD413A-P** is a **termination unit** designed to work in conjunction with the **DHI-HY-LD413A-I adapter unit** and conventional, outdoor, anti-corrosion, and explosion-proof temperature sensor cables. Its main function is to balance the signal status and provide **fire alarm and fault testing**.

This device is ideal for applications in **temperature detection for cable trays, transformers, mining conveyor belts, petrochemical storage tanks, and reaction vessels**.

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2. Key Features

- **Stable Performance**: High-precision detection with reduced false alarms.
- **Reliable Protection**: Made of **aluminum**, resistant to impacts, drops, and vibrations.
- **Easy Installation**: Wall-mount design for seamless integration.
- **High Compatibility**: Supports a wide range of cables and temperature environments.
- **IP66 Protection**: Dust and water-resistant, ideal for harsh environments.
- **Integrated Testing**: Includes test buttons for **fire alarm and fault simulations**.

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3. Installation

3.1. Prerequisites

Before installation, ensure you have:

- A suitable environment with the recommended temperature conditions.
- A stable mounting bracket for wall installation.
- Connection to compatible temperature sensor cables.

3.2. Installation Procedure

1. **Mount the Device**: Secure the termination unit to the wall using appropriate brackets.
2. **Cable Connection**: Link the temperature sensor cables to the unit.
3. **Status Verification**: Power on the system and confirm proper signal balancing.
4. **System Testing**: Press the test buttons to verify alarm and fault detection.

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4. Usage and Maintenance

- **Periodic Monitoring**: Inspect proper signal balancing.
- **Regular Cleaning**: Keep the unit free from dust and moisture.
- **Connection Check**: Ensure cables are securely installed and properly adjusted.
- **Functional Testing**: Regularly activate alarm and fault tests to maintain optimal performance.

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5. Troubleshooting

Issue	Possible Cause	Solution
Signal imbalance	Incorrect connection	Check wiring and connections
Constant alarm	Improper sensor installation	Adjust and verify sensor positioning

Alarm test failure	Faulty test button	Restart and inspect components

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6. Technical Specifications

- **Model**: DHI-HY-LD413A-P
- **Maximum Cable Length**: ≤ 500 m
- **Compatible Cable Temperatures**: 68°C, 88°C, 105°C, 138°C
- **Operating Temperature**: –45°C to +60°C
- **Operating Humidity**: ≤ 95% RH (non-condensing)
- **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.