

BAYDE 1734-IE8C

BAYDE 1734-IE8C I/O 8 Point Analog Input Module User Manual

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the BAYDE 1734-IE8C I/O 8 Point Analog Input Module. Please read this manual thoroughly before using the product to ensure proper functionality and safety. This module is designed for industrial control applications requiring reliable analog data acquisition.

2. PRODUCT OVERVIEW

The BAYDE 1734-IE8C is an 8-point analog input module, specifically designed for collecting current-based analog signals in industrial environments. It is a critical component for systems requiring precise measurement and monitoring of various process parameters. The module is manufactured to ensure quality and reliability in demanding applications.

Key Features:

- Model No.: 1734-IE8C
- 8-point analog current input (4-20mA or 0-20mA)
- Designed for industrial control systems
- Original new product from the brand original factory



Figure 2.1: Packaging of the BAYDE 1734-IE8C I/O 8 Point Analog Input Module.

3. SAFETY INFORMATION

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 Warning).

Always observe the following safety precautions during installation, operation, and maintenance:

- Ensure power is disconnected before installing or removing the module.
- Only qualified personnel should perform installation and wiring.
- Follow all local and national electrical codes.
- Do not operate the module outside its specified environmental conditions.
- Protect the module from moisture, dust, and extreme temperatures.

4. SETUP AND INSTALLATION

4.1 Unpacking and Inspection

Carefully unpack the module and inspect it for any signs of damage during transit. If damage is found, contact your supplier immediately.

4.2 Mounting

The 1734-IE8C module is designed for DIN rail mounting within an industrial enclosure. Ensure adequate clearance for ventilation and wiring.

4.3 Wiring Connections

Connect the module to the backplane and field devices according to the system's wiring diagrams. Pay close attention to polarity for analog inputs and power connections. The module supports 4-20mA or 0-20mA current inputs.



Figure 4.1: Product label showing connection details and specifications for the 1734-IE8C module.

4.4 Power Connection

Ensure the backplane power (5 Vdc, 75 mA) and field power (10-28.8 Vdc, 30mA, Class 2) are supplied correctly and within the specified voltage ranges. Incorrect power supply can damage the module.

5. OPERATING INSTRUCTIONS

Once installed and wired, the 1734-IE8C module operates by converting incoming analog current signals from field devices into digital data for processing by a connected controller (e.g., PLC). The module continuously monitors the 8 analog input channels.

5.1 Signal Input

Connect your 4-20mA or 0-20mA current loop sensors to the designated input terminals. Ensure the sensors are properly calibrated and provide signals within the module's specified input range.

5.2 Data Acquisition

The module will acquire data from the connected sensors. The digital representation of these analog values can then be accessed and utilized by the control system for monitoring, control, and data logging purposes.

6. MAINTENANCE

The BAYDE 1734-IE8C module is designed for robust operation with minimal maintenance. However, periodic checks are recommended to ensure continued reliable performance.

- **Visual Inspection:** Periodically inspect the module and its wiring for any signs of damage, loose connections, or corrosion.
- **Cleaning:** Keep the module free from dust and debris. Use a soft, dry cloth for cleaning. Do not use solvents or abrasive cleaners.
- **Environmental Control:** Ensure the operating environment remains within the specified temperature and humidity ranges.

7. TROUBLESHOOTING

If you encounter issues with the 1734-IE8C module, consider the following troubleshooting steps:

- **No Power/Module Not Responding:**

- Check backplane power supply (5 Vdc) and field power supply (10-28.8 Vdc).
- Verify all power connections are secure.

- **Incorrect Analog Readings:**

- Verify sensor wiring and polarity.
- Ensure the sensor is functioning correctly and providing the expected current output.
- Check for electrical noise or interference in the environment.
- Confirm the module's configuration matches the sensor type (4-20mA or 0-20mA).

- **Communication Errors:**

- Check the backplane connection to the controller.
- Verify the controller's configuration for the module.

If problems persist after attempting these steps, contact technical support.

8. SPECIFICATIONS

Parameter	Value
Model Number	1734-IE8C
Brand	BAYDE
Input Type	8 Point Analog Current Input
Analog Input Range	4-20mA or 0-20mA, Class 2
Backplane Power	5 Vdc, 75 mA
Field Power	10-28.8 Vdc, 30mA, Class 2
Operating Temperature	-20°C to +55°C
Certifications	EX nA IIC T4 Gc, UL Listed
Origin	Product of Singapore

9. QUALITY ASSURANCE AND SUPPORT

BAYDE ensures that all products, including the 1734-IE8C module, are original new and produced by the brand's original factory, guaranteeing high quality and reliability. Our primary consideration is to provide a good shopping experience through fast and safe delivery.

For technical assistance, inquiries about other models, or further support, please consult your supplier or the manufacturer's official channels.

