

AS-B805-016
Modicon 800 Series
Analog Input Module
User Manual

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1. Product Overview

The AS-B805-016 is an analog input module belonging to the Modicon 800 Series I/O family.

It is designed to acquire continuous industrial process signals and convert them into digital data for PLC processing.

Typical input signals include voltage and current signals commonly used in industrial automation systems.

This manual describes the module structure, technical characteristics, wiring guidelines, and operational considerations.

2. Typical Applications

Process variable acquisition in chemical, petrochemical, and energy industries.

Analog signal monitoring in manufacturing production lines.

Water treatment and utility automation systems.

Distributed or local I/O systems based on Modicon PLC platforms.

3. Module Structure

The module features a standard Modicon 800 Series mechanical design suitable for DIN rail mounting.

Front terminals provide connections for field analog input signals.

Internal circuits include signal conditioning, A/D conversion, and communication interfaces.

Front-panel indicators provide basic operational and diagnostic status.

4. Electrical Characteristics

Supports multiple analog input channels for industrial standard signals.

Input circuits provide electrical isolation and noise suppression.

The module is powered directly from the system backplane without the need for external power supply.

5. Input Channel Characteristics

Each input channel is independently sampled to ensure stable signal acquisition.

High-resolution conversion allows accurate representation of process signals.

Internal filtering functions help reduce signal noise.

Channel status and diagnostic information can be accessed by the PLC application.

6. Wiring Guidelines

Analog signals are connected via the front terminal block.

Shielded cables are recommended to minimize electromagnetic interference.

Signal cables should be routed separately from power cables.

Verify signal type and range compatibility before wiring.

7. Installation Requirements

Install the module inside an industrial control cabinet that meets environmental specifications.

Ensure adequate ventilation for proper heat dissipation.

Avoid installation in areas with excessive vibration or strong electromagnetic fields.

8. System Configuration

The module is configured through the PLC hardware configuration software.

Assign I/O addresses during system setup.

Configure channel parameters according to the connected signal type and range.

9. Diagnostics and Maintenance

Basic operating and fault diagnostics are supported.

System indicators provide information on module and channel status.

Module replacement and maintenance should be performed with system power removed.

10. Technical Specifications (Summary)

Item	Description
Module Type	Analog Input Module
Product Series	Modicon 800 Series
Input Signals	Industrial standard analog signals
Mounting	DIN rail mounting
Power Supply	Backplane powered

11. Safety Information

Installation and maintenance must be performed by qualified personnel.

Disconnect system power before wiring or servicing the module.

Do not operate the module outside of its specified ratings.

12. Conclusion

This document is a factory-style compiled user manual for the AS-B805-016 analog input module.

It is intended for engineering reference, maintenance, and replacement applications.