

Modicon 170BAI03600

Analog Input Module

Technical Product Description (PDF)

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1. Product Overview

The Modicon 170BAI03600 is an industrial-grade analog input module designed for use within the Schneider Electric Modicon / TSX Momentum I/O architecture. The module provides reliable acquisition of multiple standard analog signals and converts them into digital data for PLC processing.

2. Functional Description

The module receives analog voltage or current signals from field devices such as sensors and transmitters. Internal signal conditioning circuits adapt the input signals, followed by analog-to-digital conversion. The converted digital values are then transmitted to the control system via the I/O backplane.

3. Supported Input Signal Types

Signal Type	Range
Voltage Input	± 10 V
Voltage Input	0 to 10 V
Current Input	0 to 20 mA
Current Input	4 to 20 mA

4. Channel Configuration

The module provides 8 independent analog input channels. Each channel can be individually configured via the control system to operate with a specific input signal type and measurement range.

5. Technical Specifications

Parameter	Specification
Model Number	170BAI03600
Number of Channels	8 Analog Inputs
Power Supply	24 V DC
Input Types	Voltage and Current
Mounting	Modicon I/O Backplane
Wiring	Screw Terminal
Certifications	CE, UL, CSA

6. Installation Guidelines

The module should be installed on a compatible Modicon backplane. Ensure that system power is switched off during installation. Field wiring should be performed using shielded cables where required, and proper grounding practices must be followed.

7. Operating Conditions

The module is designed for continuous operation in industrial environments. Operating temperature, humidity, and vibration levels must comply with standard industrial control cabinet conditions.

8. Compliance and Reliability

The 170BAI03600 module complies with international industrial standards and certifications. Its robust design ensures stable long-term operation in automation and process control systems.