

## OVERVIEW

The AXIA Input Module is a versatile DIN rail module that connects a wide range of sensors and input devices to the AXIA control platform. Supporting analog, digital, frequency, resistive, and dry contact signals, it enables comprehensive monitoring across industrial, commercial, and agricultural environments. Its flexible input compatibility and dependable performance deliver robust data acquisition for precise, real time automation.



## APPLICATIONS

The AXIA Input Card serves as a reliable interface for sensors and input devices such as temperature and humidity probes. Its daisy-chain power and Modbus RTU connectivity simplify installation, while automatic controller discovery and on module power terminals streamline setup. With no calibration required, it provides a fast, maintenance friendly solution for accurate environmental and process monitoring.

## COMPATIBLE SENSORS

The following sensors are compatible with the input card:

TN21, TS200/220-SS, SQ500, SQ110SS, SEN-RHT, SEN-SM-500/600, SEN-LI-SQ-100X/515/615, SEN-PH/SP200, SEN-LEVEL-FLT/S-2, SEN-PT-9PSI/500PSI, SEN-ECTIN, NUT-FLOW/PADm, SEN-DTS-504X

## FEATURES

### Universal Input Flexibility

Eight universal channels support voltage, current, frequency, and resistive signals for broad sensor compatibility.

### High Precision Measurement

A 16-bit ADC delivers accurate, stable readings for dependable monitoring.

### Integrated OLED Display

On module OLED shows real time values, signal types, and sensor status for quick field checks.

### Reliable Modbus RTU Communication

Modbus RTU over RS-485 provides fast, dependable integration with automation networks.

### No External Components Required

Eliminates separate resistors or interface boards, simplifying installation.

### Removable Connectors

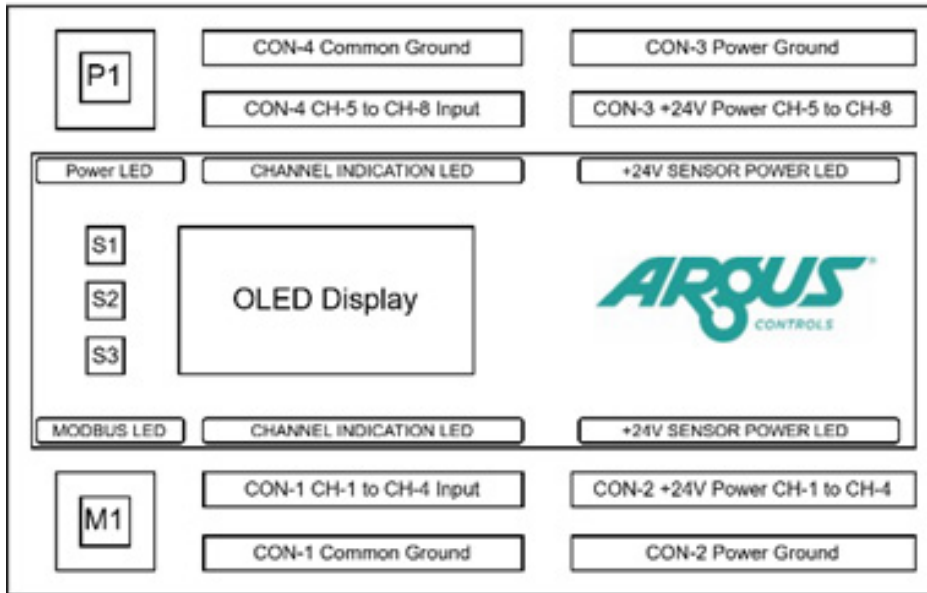
Streamlines wiring and module replacement to minimize downtime.

## TECHNICAL SPECIFICATIONS

<b>Dimensions</b>	191mm x 151mm x 63.5mm
<b>Input Channels</b>	8 Configurable (Configurable Analog/ Digital/ Dry Contact/ Frequency)
<b>Analog Voltage Range</b>	0-10 VDC
<b>Analog Current Range</b>	0-20 mA
<b>Frequency Input Range</b>	Up to 10 KHz
<b>PWM Parameter</b>	0-100% duty cycle at 0.1-10KHz
<b>Digital Inputs</b>	Dry Contact, Frequency Signals, (PWM)
<b>ADC Resolution</b>	16-bit ( $\pm 1$ LSB)
<b>Power Supply</b>	24VDC input; Max. power: 5W
<b>Mounting</b>	Compact DIN-Rail mount design
<b>Communication Interface</b>	Modbus RTU over RS-485
<b>Maximum Number of Input Cards per Controller</b>	Up to 16 nodes (with 1 unit load devices)
<b>LED Indicators</b>	Input Type, Power Status and Modbus RTU Activity
<b>OLED Display</b>	Shows input ports information
<b>Push buttons</b>	Three buttons for input scrolling

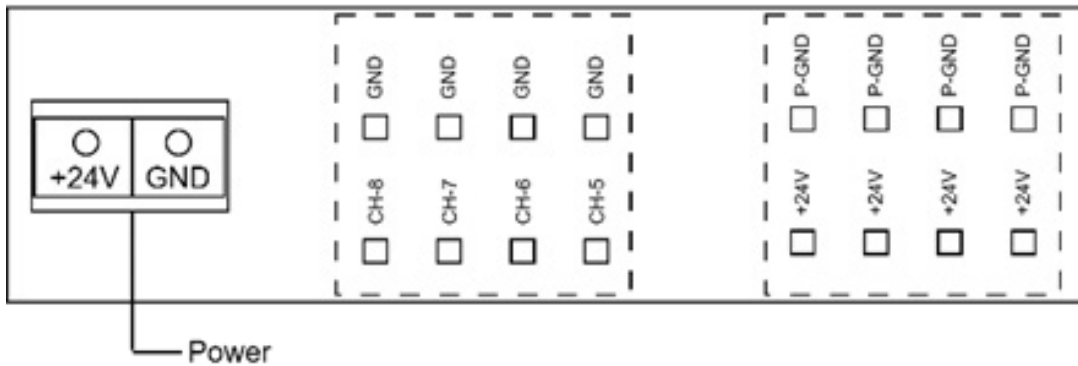
## WIRING DETAILS

Front View

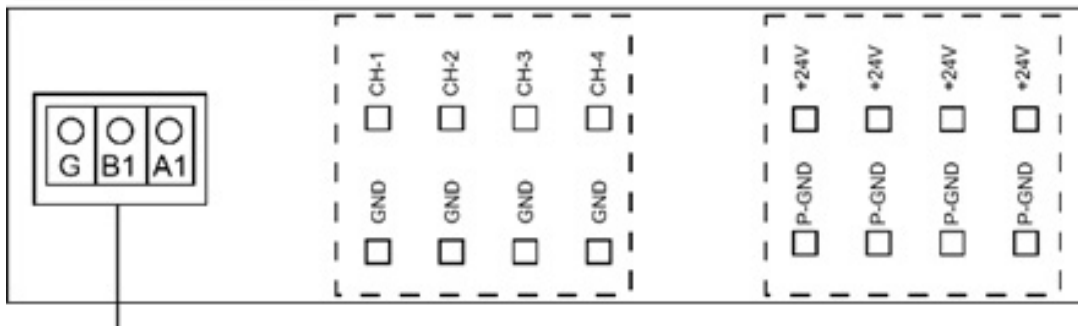


### Connector Information

#### Top Connectors



#### Bottom Connectors



Typical wiring example. For installation, refer to the supplied wiring diagrams and instructions.