



\*image not available



8TC

RTU Serial MODBUS

Product Datasheet

MPN: - AT-16003

## INTRODUCTION

The 8-Channel Thermocouple Input Module with Modbus RTU support is a high-performance data acquisition device engineered for precise temperature measurement in industrial environments. Designed to support a wide range of thermocouple types, this module ensures accurate and reliable temperature monitoring over Serial networks using the Modbus RTU protocol.

### GENERAL SPECIFICATIONS

Operating Voltage	DC 9V-36V
Power Consumption	0.4 W@24V
Power Isolation for RS_485	1.5 kV Galvanic
Operating Temperature	0°C to 60°C
Operating Humidity	20-95% RH (non-condensing)
Storage Temperature	0°C to 75°C
Certifications	ROHS
Indicator	Power ON, communication LED's
Configuration Tool	Serial configuration utility
Reset Function	YES
Protection Class	
Material	
Weight(g)	
Mounting type	Din Rail Mounting
Enclosures External Dimensions	

### THERMOCOUPLE SPECIFICATIONS

Number of Channels	8 (differential)
Input Type	K, J, N, R, S, T, B, and E
Resolution	19bit
Accuracy	±0.7°C (max, -20°C to +85°C) Cold-Junction Accuracy

SERIAL INTERFACE SPECIFICATIONS	
Number of Ports	1
Serial Standard	RS485
MODBUS Support	Yes (RTU)
Baud Rate	Custom (Default 115200)
Parity	None, Even, Odd
Data Bits	8, 9 bit (including parity)
Stop Bits	1, 2
Serial Signal	<b>RS-485:</b> 2W D+, D-,GND
Terminating Resistor for RS-485	120 ohm
RS-485 Data Direction Control	ADDC (Automatic Data Direction Control)
Galvanic Isolation	2.5 kV

## MECHANICAL DIMENSIONS

\*image not available

ORDERING INFORMATION	
MPN	Description
AT-16003	8-ch Thermocouple Module with Modbus RTU

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