

MR-3262a

4 channels AI remote terminal Unit

■ Features

- 4-channels analog input combo module
 - 2-channels differential voltage input
 - 2-channels isolated current input
- High resolution: 24-bits ADC
- Voltage Input features:
 - ± 50 V_{DC} overvoltage protection
 - Wide analog input range: ± 10 V
 - High accuracy: $\pm 0.015\%$ FSR
- Current Input features:
 - Isolated current channel
 - 150 mA overcurrent protection
 - Wide current input range: $\pm 0-20$ mA
 - High accuracy: $\pm 0.015\%$ FSR
- Support LED output indicator
- Wide operating temperature range: -25 to +75°C
- Support Modbus RTU protocol



■ Introduction

The MR-3262a is an analog input module that provides 4 isolated input channels. The input types are 2 channels with differential voltage input and 2 channels with current input. These two kinds of channels are available for the same input range. The module also features 2,500 VDC intra-module isolation, as well as ± 50 VDC overvoltage protection for voltage input and 150 mA overcurrent protection for current input. The MR-3262a supports the Modbus RTU protocol.

■ Specifications

Analog Input

Number of Ports		4
Type	Voltage	2 Channel Differential Voltage Input
	Current	2 Channel Isolated Current Input

Input Range	Voltage	$\pm 10 V_{DC}$
	Current	$\pm 0-20 \text{ mA}$
Input Impedance	Voltage	1 M Ω
	Current	200 Ω
Accuracy	Voltage	$\pm 0.015\%$ FSR
	Current	$\pm 0.015\%$ FSR
Sample Rate		20Hz
Resolution		24-bit
LED Indicator		Yes

Serial Interface

Console Port	RS-485(D+, D-), RS-232(GND, Tx, Rx)
Number of Ports	2
Serial Standards	RS-485, RS-232
Data Transfer Rate	Up to 115.2 kbps
Data Format	(N, 8, 1), (N, 8, 2), (E, 8, 1), (O, 8, 1)
LED Indicator	Yes, Tx (Yellow), Rx (Green)

Software Feature

Protocols	Modbus RTU
Mode	Modbus RTU Slave
Configuration Option	Windows Utility

Power

Power Input	10 to 30 V _{DC}
Power Consumption	< 600 mW
LED Indicator	Yes, Pwr (Red)

Protection

Power Isolation		Yes
Analog Input	Voltage	$\pm 50\text{ V}_{\text{DC}}$ overvoltage protection

	Current	150 mA overcurrent protection
Intra-Module Isolation		2500 V _{DC} (Field-to-Logic)
ESD Protection (IEC 61000-4-2)		±4 kV Contact for each Terminal
		±8 kV Air for Random Point
Reverse Polarity Protection		Yes

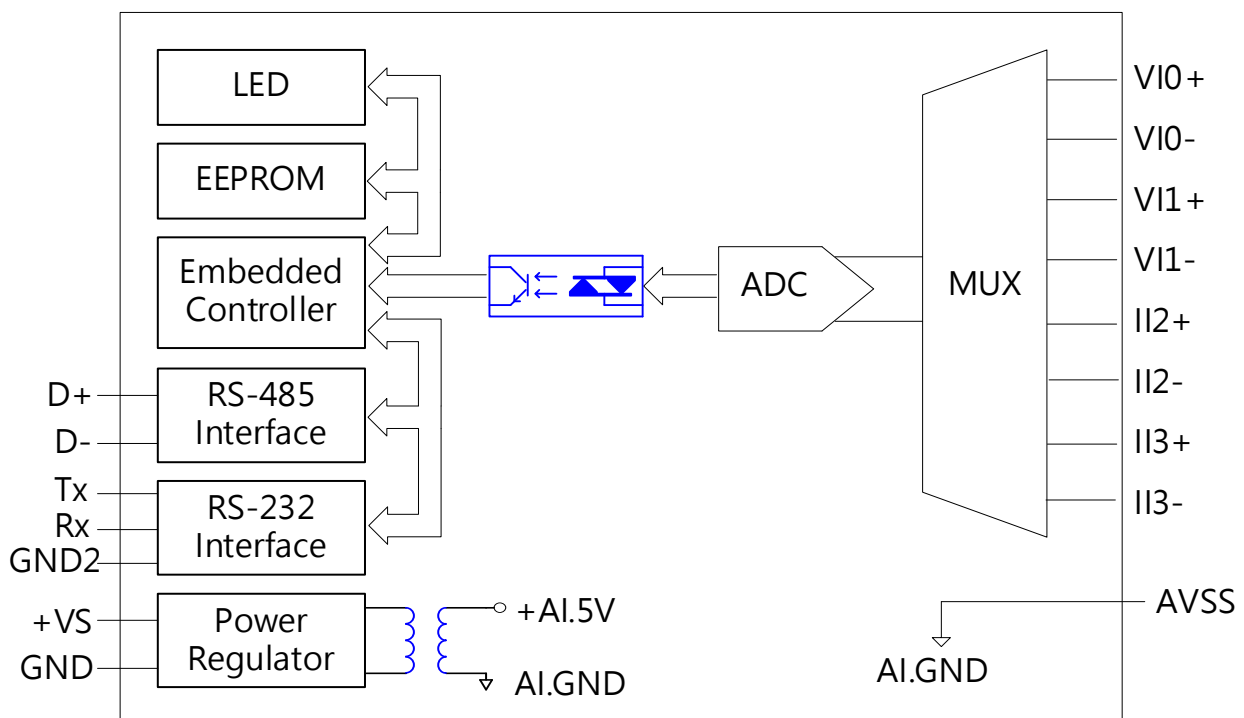
Mechanical

Dimensions (L x W x H)	114mm x 66 mm x 30 mm
Installation	DIN-Rail or Wall Mounting

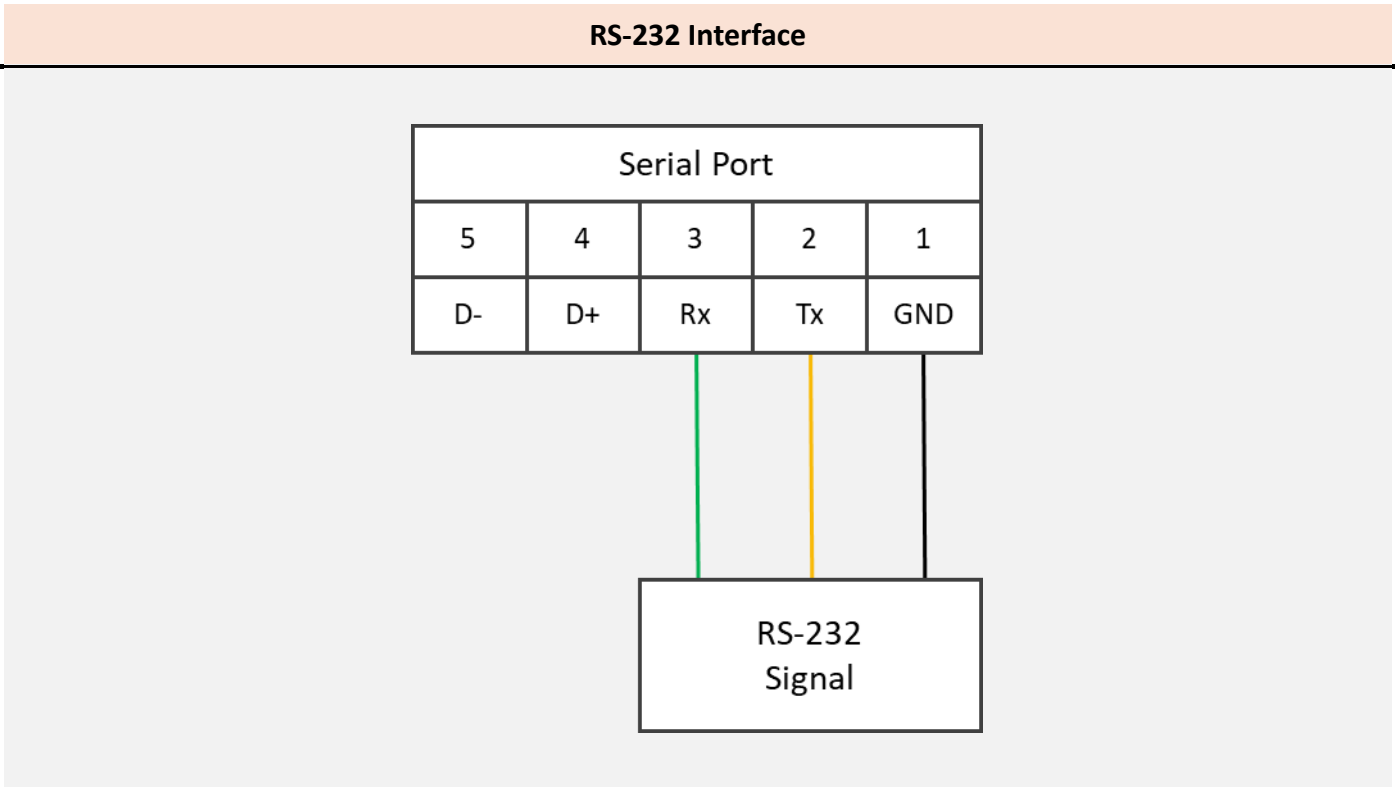
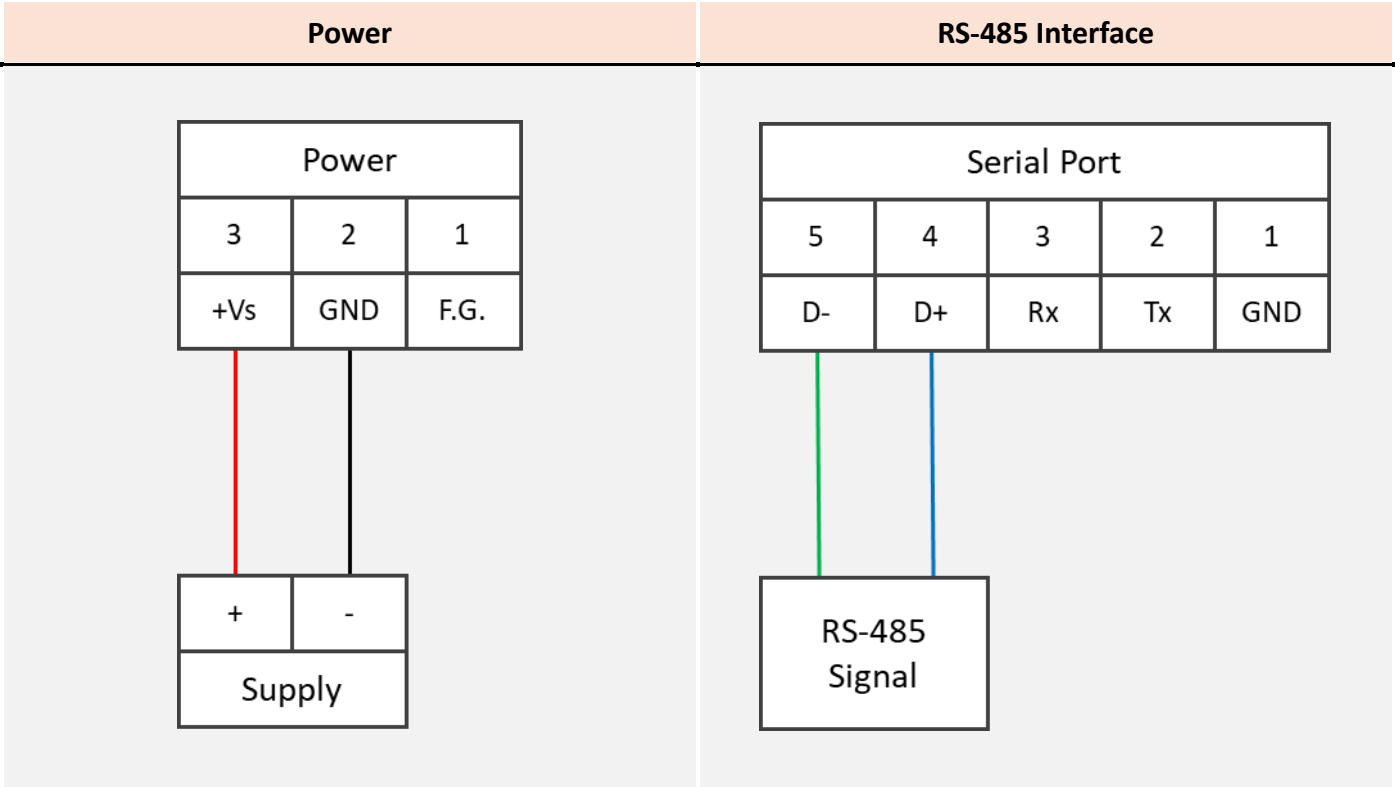
Environment

Operating Temperature	-25°C to 75 °C
Storage Temperature	-30°C to 85 °C
Humidity	10% to 95% RH, Non-condensing

Internal I/O Structure

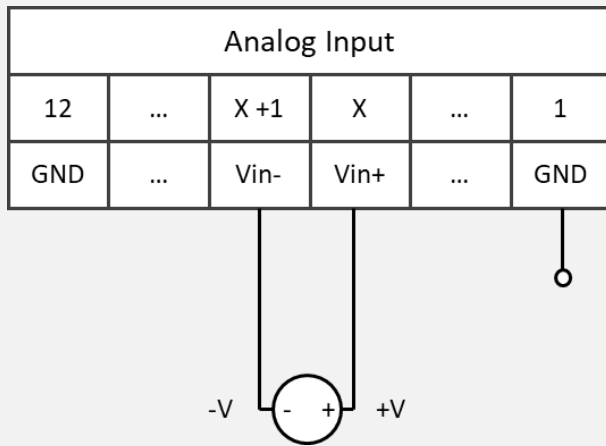


■ Terminal Assignments

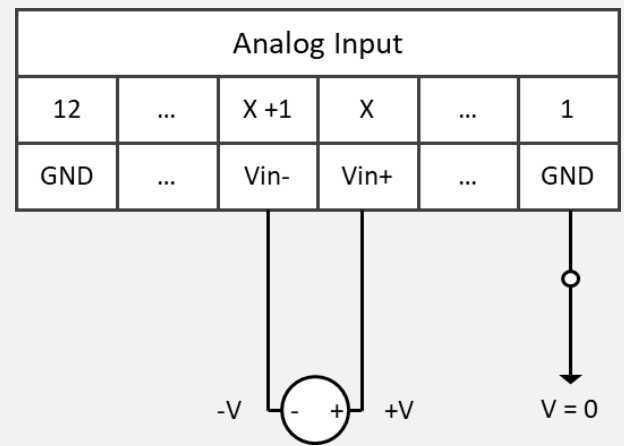


Analog Voltage Input

Differential Input

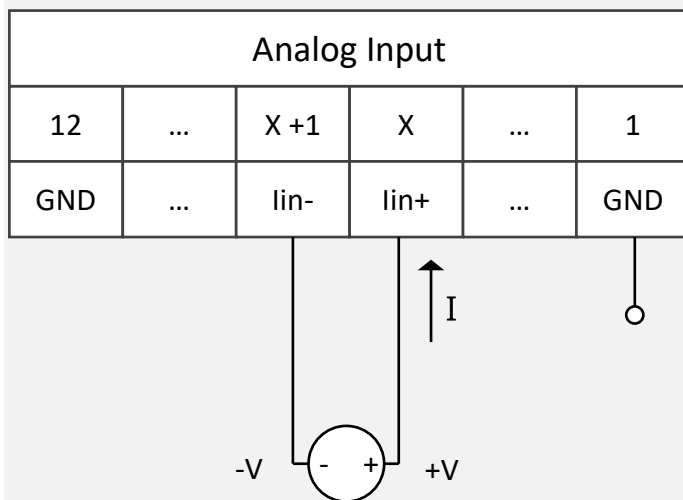


Differential Input with Reference Ground

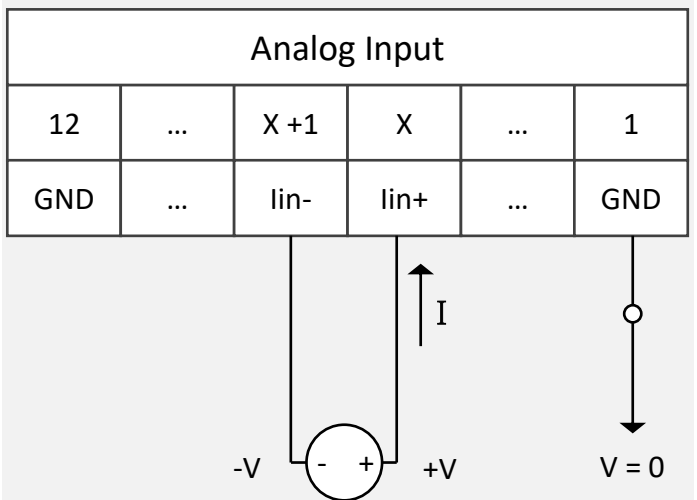


Analog Current Input

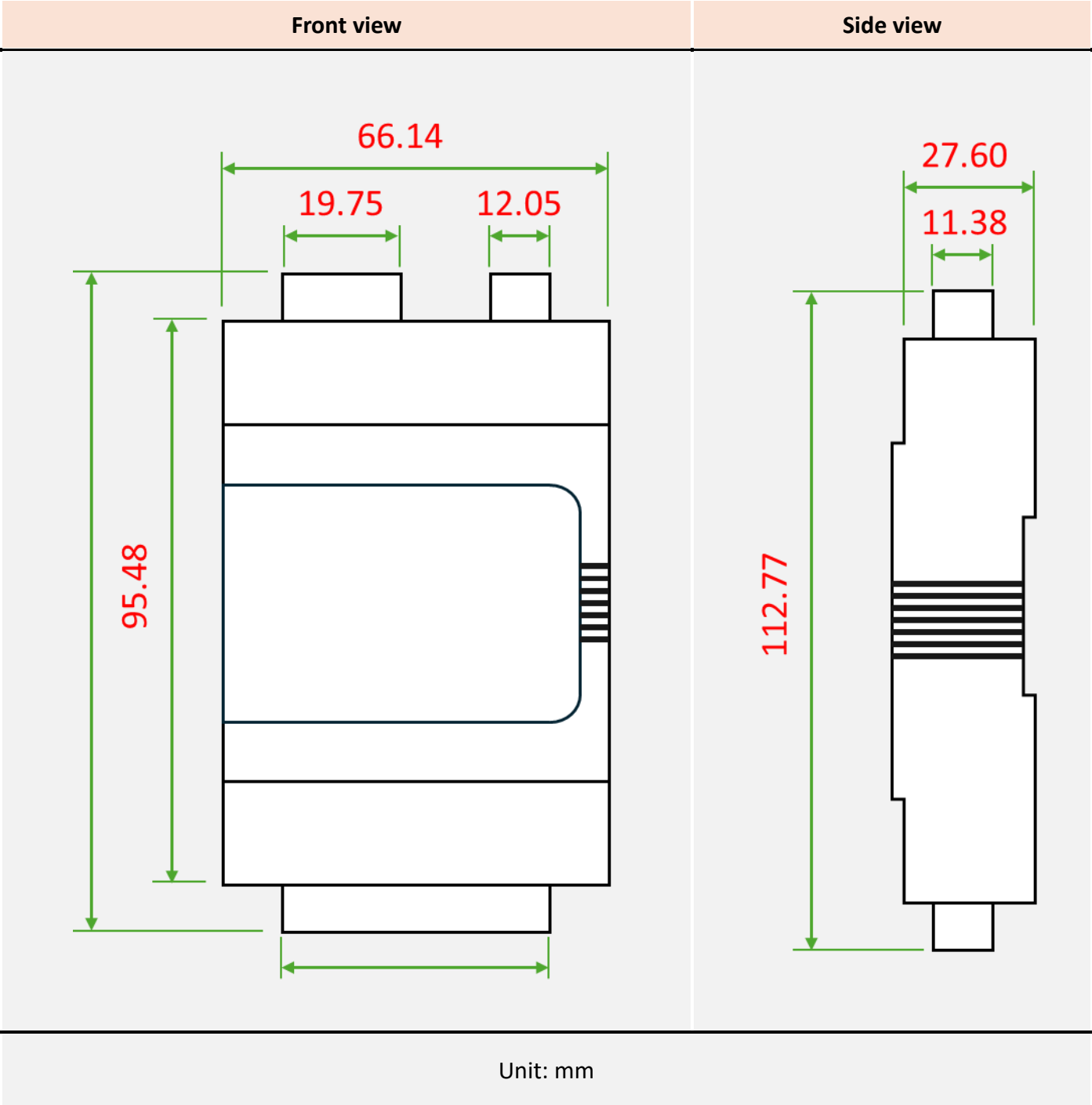
Differential Input



Differential Input with Reference Ground



■ Dimensions



■ Appendix



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