

MR-4400a

4 channels AO remote terminal Unit

■ Features

- 4 channels analog output Module
- Single-Ended voltage output type
- Wide voltage output range: ± 10 V
- High resolution: 14-bit DAC
- High accuracy: $\pm 0.015\%$ FSR
- Support LED output indicator
- Wide operating temperature range: -25 to $+75^{\circ}\text{C}$
- Support Modbus RTU protocol



■ Introduction

The MR-4400a is an analog output module that provides 4 single-ended voltage output channels. The module also features 2,500 VDC intra-module isolation, as well as ± 50 VDC overvoltage protection. The MR-4400a module also has 4kV ESD protection and its communication supports the Modbus RTU protocol.

■ Specifications

Analog Output	
Number of Ports	4
Type	Single-Ended Voltage Output
Output Range	± 10 V _{DC}
Resolution	14-bit
Accuracy	$\pm 0.015\%$ FSR
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
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

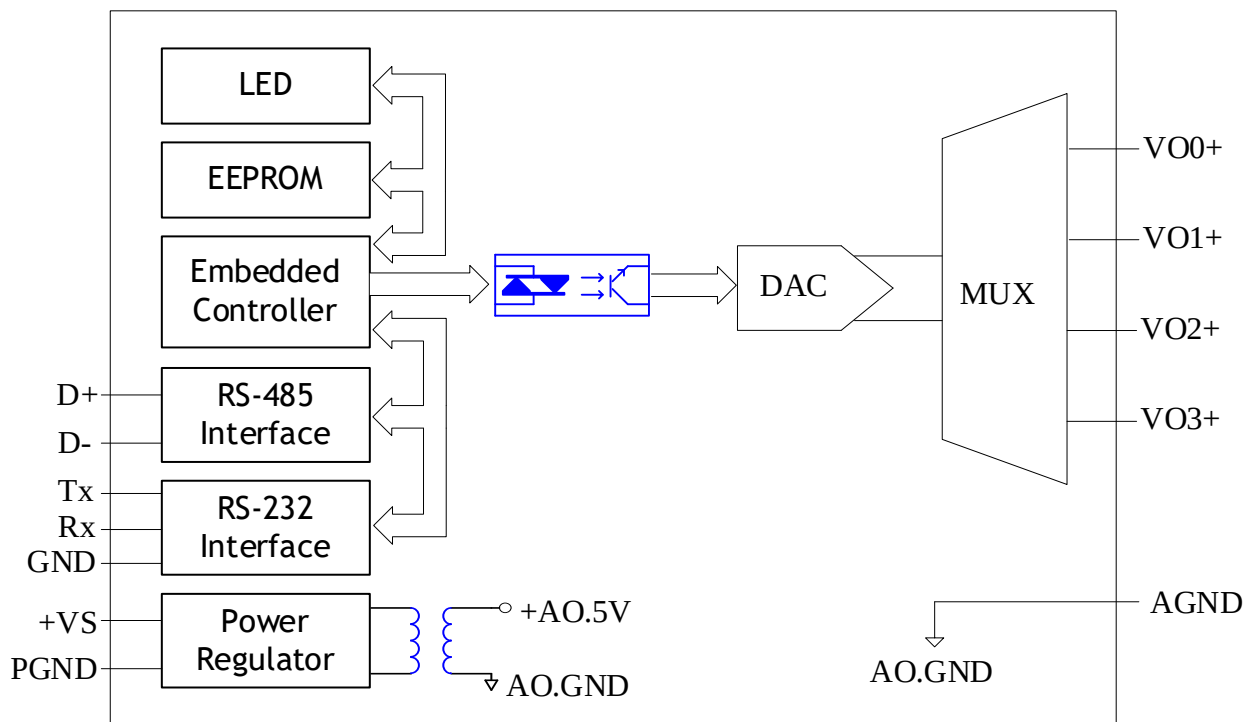
Mechanical

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

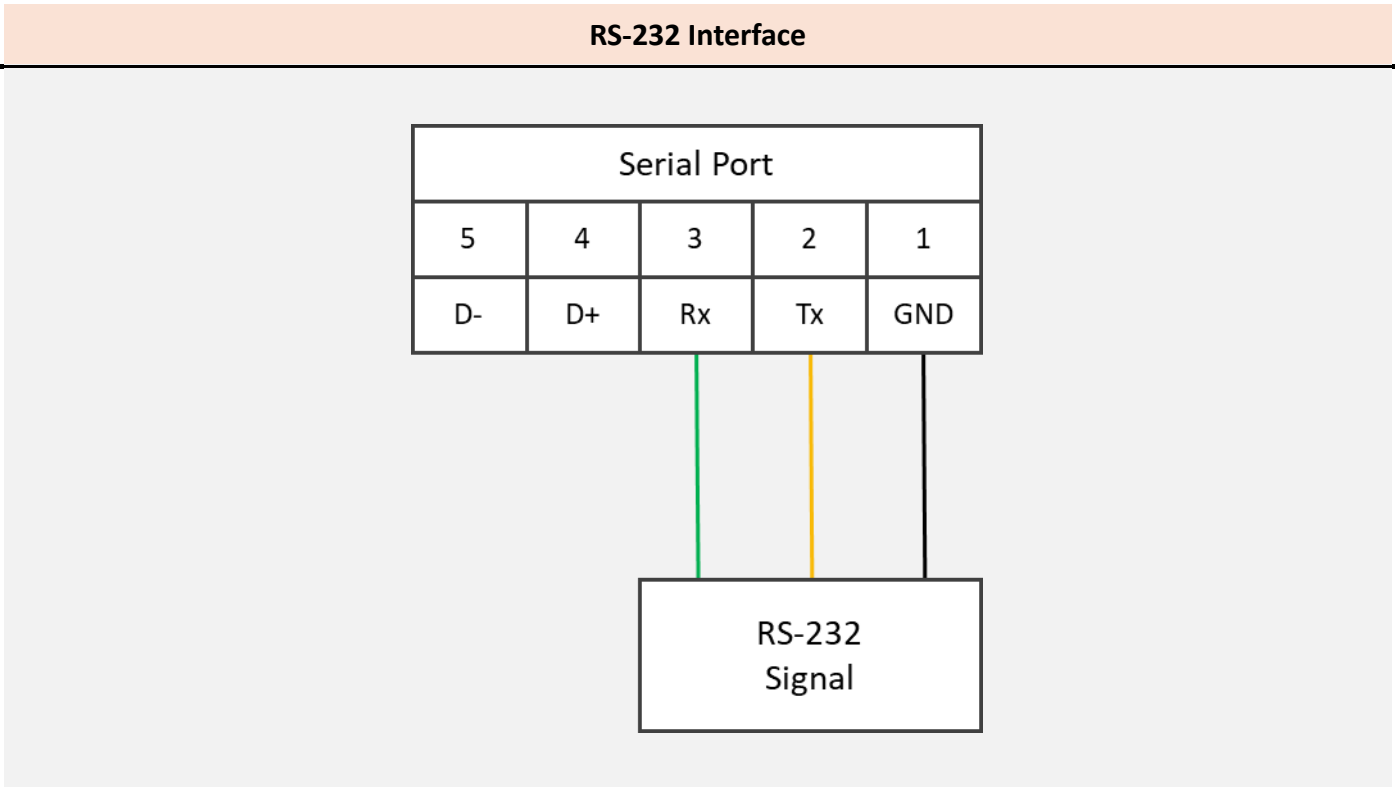
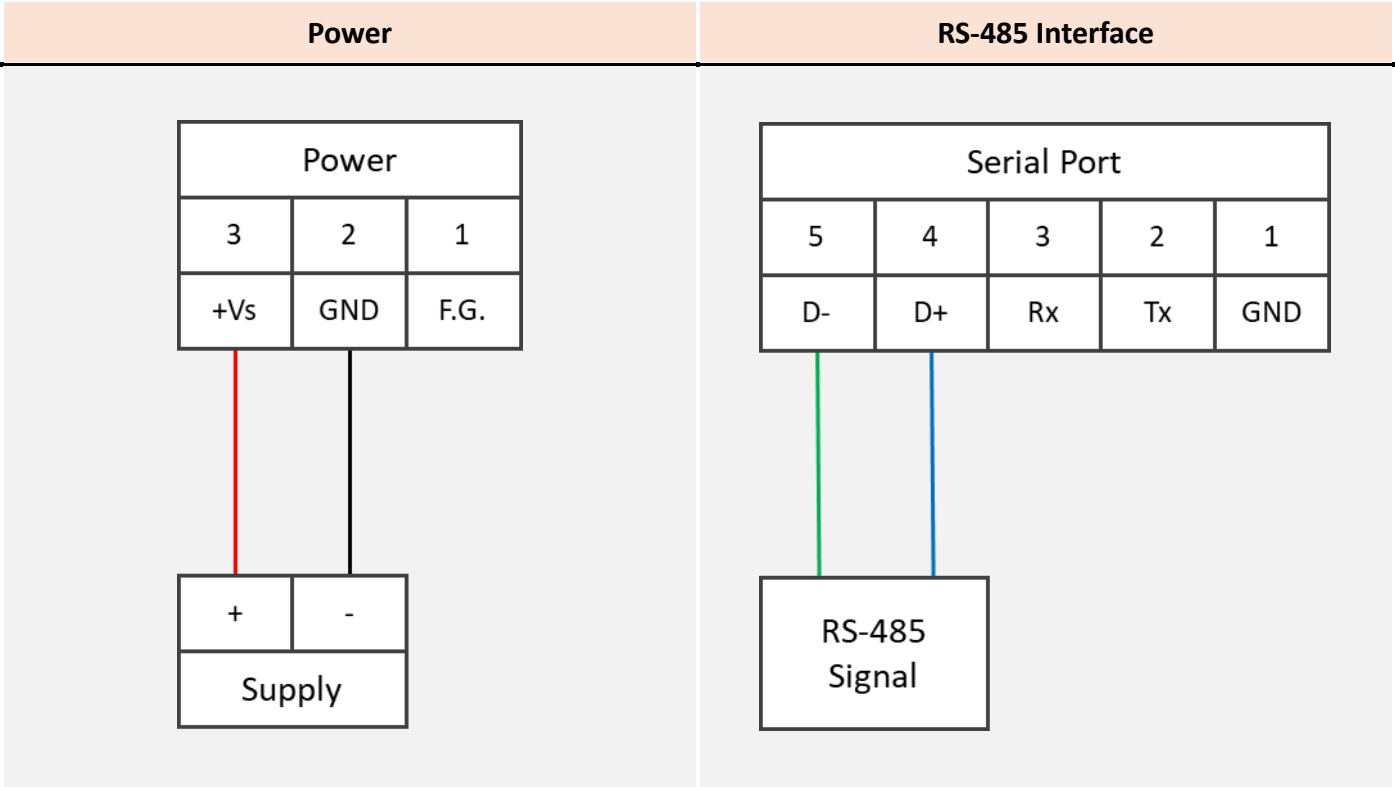
Environment

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

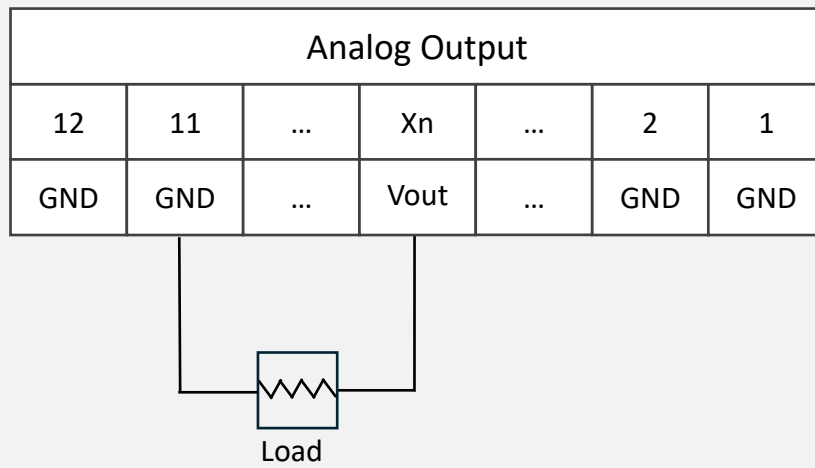
Internal I/O Structure



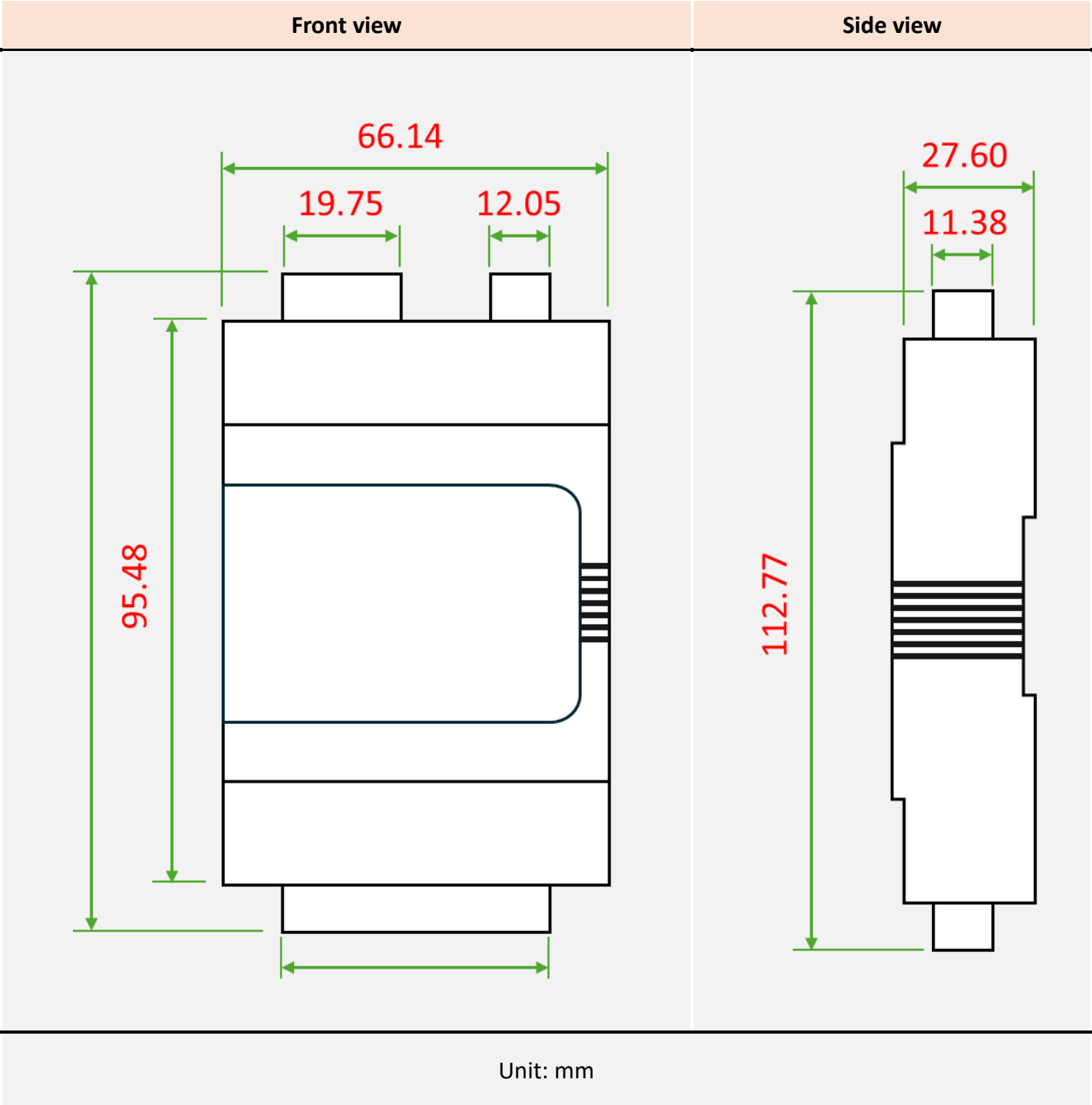
■ Terminal Assignments



Single-Ended Analog Output



■ Dimensions



■ Appendix



全智升科技股份有限公司



+886-3-582-8498



SALES@ai-up.com.tw



<https://www.AI-UP.com.tw>



Rm. 424, Building 52, No. 195, Section 4,
Zhongxing Road, Zhudong Township,
Hsinchu County 310, Taiwan