

Product Information

8 PORT ANALOGUE INPUT MODULE WITH MODBUS INTERFACE

The DIIO-AI-A-8 is part of the D.I.I.O family of products.

Eight physical inputs are mapped to Modbus registers. The scaling of each input can be changed to match the engineering units the 0-5VDC or 0-10VDC signal represent.

Modbus RTU is implemented on a configurable serial port as Non Isolated RS232, Non Isolated RS485 or Isolated RS485.

The hardware can be configured for a 0-5VDC or 0-10VDC input.

Status indications are available for communications activity, system watchdog, power indication and the various digital input statuses.



D.I.I.O. System Module
8 Port Analogue Input Module Type A
(DIIO-AI-A-8)

Summary of Features

- Electrical:** 0-5VDC or 0-10VDC inputs (10 Bit Inputs, 1024 Steps)
 Power Supply 10VDC to 30VDC *
- Comms:** RS232 or RS485, Isolated or Non Isolated *
 Modbus RTU Protocol, Baud: 9600-38400, Parity: None/Odd/Even/Mark/Space
 Configurable Modbus Address via software
- Hardware:** Removable Plug-in Terminals. Wire Connection from 28 to 16 AWG (1.5mm²)
 DIN Rail Mounted Metal Enclosure
 Push Buttons for Comms. Parameters Reset and Device Reset
 Plug In Card Internal Configuration. Inputs paired in two channels per card.
 Separate Comms Card, Power Supply and IO Cards.
- Software:** Communication parameters are configured via a windows based software.

* Different Part Number have to be ordered for the various configurations

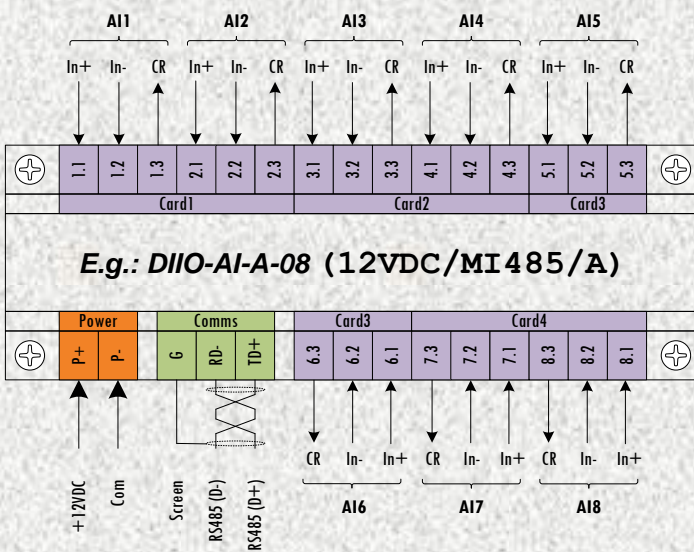


Top Connections - IOs 1 to 5



Bottom Connections - Power Supply, Communications and IOs 6 to 8

Option A: 0-10VDC Analogue Input

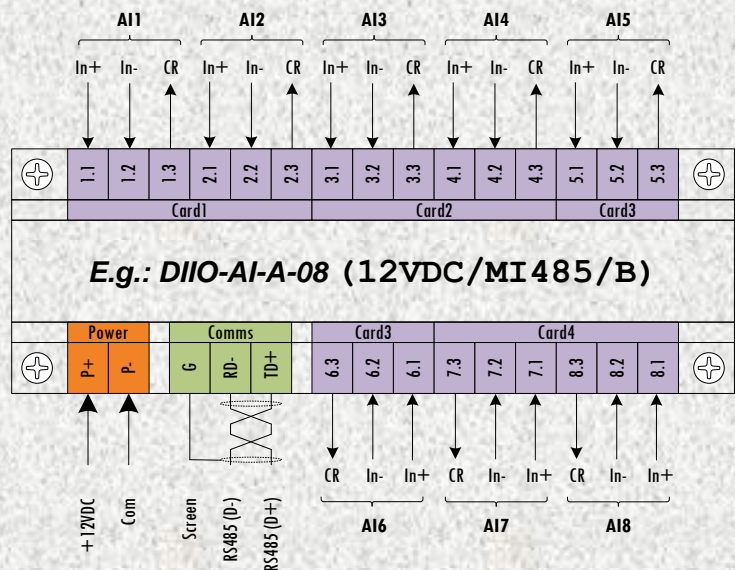


E.g.: DIIO-AI-A-08 (12VDC/MI485/A)

Non Isolated 0-10VDC Inputs

CR = Calibration Reference (5V Input to Microprocessor)

Option B: 0-5VDC Analogue Input



Non Isolated 0-5VDC Inputs

E.g.: DIIO-AI-A-08 (12VDC/MI485/B)

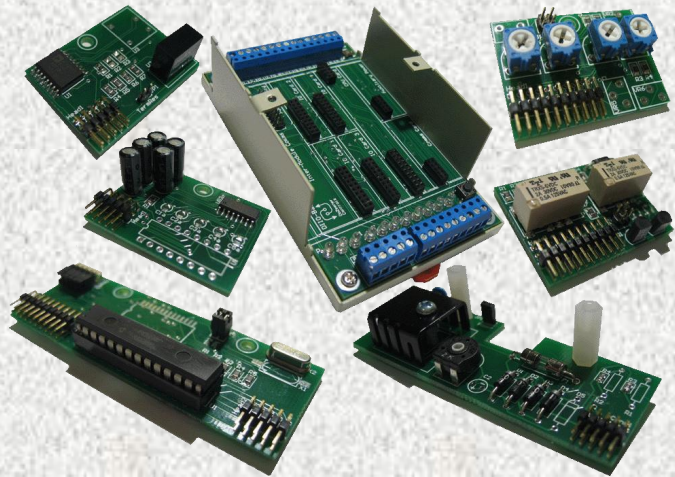
CR = Calibration Reference (5V Input to Microprocessor)

Card Configuration:

This device is part of the D.I.I.O. family of devices. Each device consists of a back plane and plug-in cards assembled to carry out the desired function of the module.

Cards are available for digital outputs, digital inputs, analogue outputs, analogue inputs, power supplies, CPU and communications.

A Modbus network controller is also available in the range, that manages Modbus traffic making this system ideal for controlling remote equipment with few easy configuration steps.



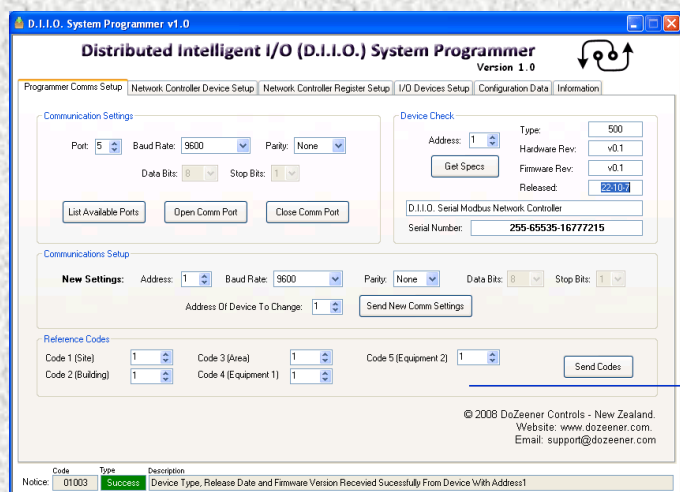
Programming Software:

Each device in the D.I.I.O. family of devices can be configured via one software environment offered for free with each device or system.

The D.I.I.O. System Programmer can either be used to program individual devices or the network controller, which controls the flow of information across the system.

This software has been developed using the latest .NET environment and is very intuitive and easy to use.

Communication parameters and Modbus addresses can be changed using this software with a press of a button.



Ordering Codes:

Ordering codes consist of two components, the device code and card configuration options.

Eg: **DIIO-AI-A-8 (12VDC/MI485/A)**

Device Code (Power Supply/Communications Card/IO Card Configuration)

Power Supply Options: **12VDC: 12VDC Power Supply**

24VDC: 24VDC Power Supply

Comms Card Options: **MI485 : Isolated RS485**

MN485 : Non Isolated RS485

MN232 : Non Isolated RS232

IO Card Options: **A: (Config. Type A: Non-Isolated 0-10VDC Analogue Inputs)**

B: (Config Type B: Non-Isolated 0-5VDC Analogue Inputs)

All requests for quotations should be sent to the email: enquiry@dozeener.com