ioLogik R1200 Series
Quick Installation Guide

RS-485 Remote I/O

Version 4.1, January 2021

Technical Support Contact Information
www.moxa.com/support

P/N: 1802012002014

Package Checklist

- 1 ioLogik R1200 series remote I/O product
- Quick installation guide (printed)

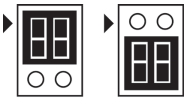
Specifications

Input Current	ioLogik R1210 Series: 154 mA @ 24 VDC ioLogik R1212 Series: 187 mA @ 24 VDC ioLogik R1214 Series: 207 mA @ 24 VDC ioLogik R1240 Series: 216 mA @ 24 VDC ioLogik R1241 Series: 343 mA @ 24 VDC
Input Voltage	12 to 48 VDC
Operating Temperature	Standard Models: -10 to 75°C (14 to 167°F) Wide Temp. Models: -40 to 85°C (-40 to 185°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)

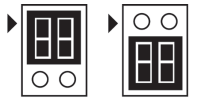
Installation

Jumper Settings

The models with DIO or AI channels require configuring the jumpers inside the enclosure. Remove the screw located on the back panel and open the cover to configure the jumpers.



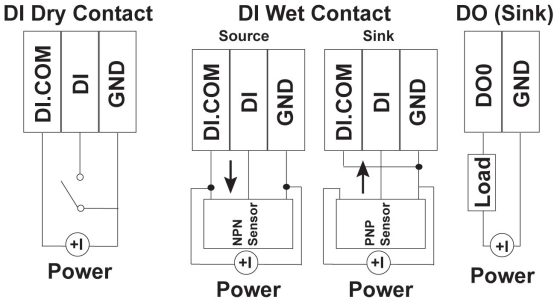
DIO mode configuration is shown to the right (default: DO Mode).



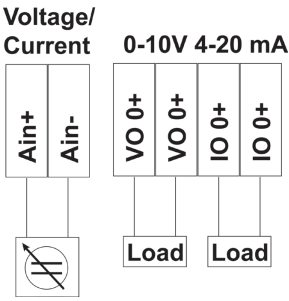
Analog mode configuration is shown to the right (default: Voltage Mode).

I/O Wiring

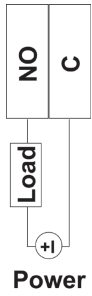
Digital Input/Output (Sink Type)



Analog Input



Relay Output (Form A)



NOTE A "load" in a circuit schematic is a component or portion of the circuit that consumes electric power. For the diagrams shown in this document, "load" refers to the devices or systems connected to the remote I/O unit.

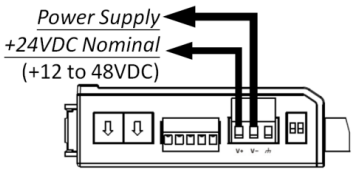
Mounting

The ioLogik R1200 is designed with a vertical form factor, and can be used with both DIN-Rail and wall mounting applications. When mounting on a rail, release the bottom mounting kit, install the ioLogik on the rail, and then restore the bottom mounting kit to fix the ioLogik to the rail. When using wall mounting, release both the upper and bottom DIN-Rail kits.

Power and Networking

Connect the +12 to +48 VDC power line to the ioLogik R1200's terminal block V+ terminal; connect the ground from the power supply to the V- terminal.

Connect the ground pin (⏚) if earth ground is available.

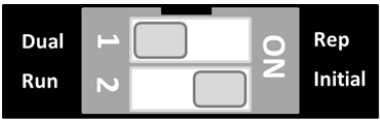


NOTE For safety reasons, the wires attached to the power should be at least 2 mm (12 gauge) in diameter.

Switch Settings

The R1200 series provides Dual/Rep and Run/Initial switch settings to set up the communication mode.

Duel (Default)	Dual RS-485 mode
Rep	Repeater mode
Run	User define communication parameters
Initial (Default)	Initial RS-485 communication parameters



LED Indicators

Type	LED Color	LED Action	
PWR	Green	On:	Power On
		Off:	Power Off
RDY	Green/ Red	Green:	System Ready
		Green Blinking:	Located
		Red:	System Boot-up Error
		Red Blinking:	Firmware upgrade / USB upgrade
		Green/Red Blinking:	Safe Mode
		Off:	System NOT Ready
P1	Green/ Amber	Green:	Tx
		Amber:	Rx
		Blinking:	Data Transmitting
		Off:	Disconnected
P2	Green/ Amber	Green:	Tx
		Amber:	Rx
		Blinking:	Data Transmitting
		Off:	Disconnected

System Configuration

ioSearch Utility

ioSearch is a search utility that helps users locate an ioLogik R1200 on the local network. The utility can be downloaded from Moxa's website.

Load Factory Default Settings

There are three ways to restore the ioLogik R1200 to the factory default settings.

1. Hold the RESET button for 5 seconds.
2. Right click the specified ioLogik in the ioSearch utility and select "Reset to Default."
3. Select "Load Factory Default" from the web console.

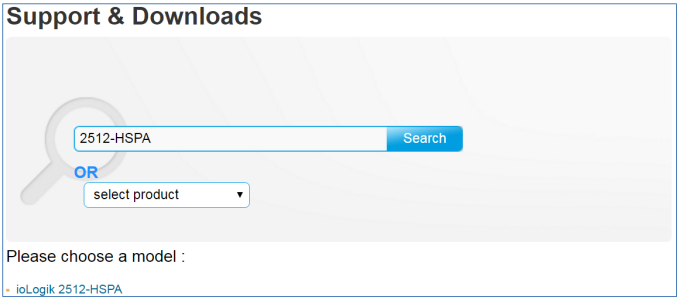
Modbus Address Table

Please refer to the user's manual for details of the ioLogik's Modbus address.

How to Download the Software

Step 1: Click on the following link to open the Support & Downloads search tool:
http://www.moxa.com/support/support_home.aspx?isSearchShow=1

Step 2: Type the model name in the search box or select a product from the drop down box and then click **Search**.



Step 3: Click the **Software Packages** link to download the latest software for the product.