

Product Test Guide

SE-I3-AI2-R01

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Model Name	SENSOPER SE-I3-AI2-R01
Product Type	Programmable Controller
Manufacturer	SENSOPER CONTROLS LLC
Country of Origin	Sri Lanka
Certifications	EN 61131-2:2007 EN 61010-1:2010+A1:2019 EN IEC 61010-2-201:2018 2014/30/EU- Electromagnetic Compatibility (EMC) Annex III, Part B, Module C

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Introduction

This guide is intended to test the features and the basic operation of the device, SENSOPER SE-I3-AI2-R01 .



Features

- 24V Sink/Source Digital Inputs x 3
- 5A Relay Outputs x 1
- 0-10V Analog Inputs x 3

Table of Test Instructions

**Flash the test code firmware before testing the device. Follow the instructions given in the Guide to Flash the Test Code Firmware guide, to flash the binary code.

Testing component/ feature	Test	Expected Output/Outputs
Digital Inputs	<ol style="list-style-type: none">1. Power-up the device using 24V DC supply2. Connect the device to the PC using a USB cable and check the serial monitor.3. Connect the digital input side GND & COM pins and supply 24V DC to every digital input one by one.	<ul style="list-style-type: none">• In the input status, the status of all the 3 digital inputs will be 1.(As they are internally pulled up)• The input status changes from 1 to 0.

<p>Voltage Inputs</p>	<ol style="list-style-type: none"> 1. Power-up the device using 24V DC supply. 2. Connect the device to the PC using a USB cable and check the serial monitor. 3. After powering up the device, to check the working of the 3 analog (voltage) inputs, supply a voltage between 0-10V (10V max) to each voltage input. <p>(Check this link for the wire connection)</p>	<ul style="list-style-type: none"> • On the serial monitor, the voltage sensed by the SENSOPER device is displayed.(You can confirm these voltage values using a multimeter.)
<p>Relay output</p>	<ol style="list-style-type: none"> 1. Power-up the device using 24V DC supply. 2. After powering up the device, to check the working of the relay, a continuity test is done using the multimeter. To do this, keep one end of the multimeter probe on the COM pin on the relay side.Next touch the other end of the probe with the relay pin. 	<ul style="list-style-type: none"> • The multimeter makes a beep sound, whenever the relay is on.