Product Test Guide
SE-I3-AV3-TC1

21-07-2021

Model Name	SENSOPER SE-I3-AV3-TC1
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-AV3-TC1.

Features

- 24V Sink/Source Digital Inputs x 3
- RS-485 x 1
- 0-10V Analog Inputs x 3

Table of Test Instructions

Testing component/ feature	Test	Expected Output/Outputs
Digital Inputs	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. Connect the digital input side **GND** & **COM** pins and supply 24V DC to every digital input one by one.	• 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.
Voltage Inputs	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.** (Check this link for the wire connection)	• On the serial monitor, the voltage sensed by the SENSOPER device is displayed.(You can confirm these voltage values using a multimeter.)

RS-485 Communication	For this test, a USB to RS-485 converter is required. 1. Connect the RS-485 A and B pins of the SENSOPER device with the respective A and B pins of the USB to RS-485 converter. 2. Plug the USB end of the USB to RS-485 converter to the PC. 3. Power-up the SENSOPER device using USB Cable. 4. Open the Arduino IDE application. 5. Select the **correct COM** port of the USB to RS-485 converter in Arduino IDE and open the serial Monitor.	• In the serial monitor, “RS-485 SUCCESS” statement is printed.