

Product Test Guide

SE-I3-AM3-TC1

21-07-2021

Model Name	SENSOPER SE-I3-AM3-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-AM3-TC1.



Features

- 24V Sink/Source Digital Inputs x 3
- RS-485 x 1
- 4-20 mA Current Inputs x 3

Table of Test Instructions

Testing component/ feature	Test	Expected Output/Outputs
Digital Inputs	<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. 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.
Current Inputs	<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. To check the working of the 3 analog (current) inputs, supply a current between 4-20mA to each current input. <p>(Check this link for the wire connection)</p>	<ul style="list-style-type: none"> • On the serial monitor, the current sensed by the SENSOPER device is displayed.(You can confirm these current values using a multimeter.)

<p>RS-485 Communication</p>	<p>For this test, a USB to RS-485 converter is required.</p> <ol style="list-style-type: none">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.	<ul style="list-style-type: none">• In the serial monitor, "RS-485 SUCCESS" statement is printed.
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