

Product Test Guide

SE-I3-TC2

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Model Name	SENSOPER SE-I3-TC2
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-TC2.



Features

- 24V Sink/Source Digital Inputs x 3
- Thermocouple inputs x 2

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>Thermocouple 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 2 thermocouples, short the respective thermocouple ends (Ta+ with Ta- & Tb+ with Tb-) 	<ul style="list-style-type: none"> • On the serial monitor, value for thermocouple reading is observed.
<p>Built-in Push Button</p>	<ol style="list-style-type: none"> 1. Connect the device to the PC using a USB cable and check the serial monitor. 2. Long press the push button. 	<ul style="list-style-type: none"> • Initially the button status will be 1. • The button status changes from 1 to 0. • RGB LED lights up.