

# Product Test Guide

## SC-EN-I6-T04

20-07-2021

Model Name	SENSOPER SC-EN-I6-T04
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 SC-EN-I6-T04 (Transistor model).



## Features

- 24V Sink/Source Digital Inputs x 8
- Open Collector Transistor Outputs x 4
- W5500 Ethernet Connectivity x 1
- Micro SD card Support
- 0.96' OLED Display
- 3 Built-in Push Buttons

## 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.

<b>Testing component/ feature</b>	<b>Test</b>	<b>Expected Output/Outputs</b>
Power	Provide 24V DC supply.	<ul style="list-style-type: none"><li>• The red LED inside the device glows.</li><li>• Display turns on.</li></ul>
Display, Memory card, RTC & W5500 Ethernet Connectivity	<ol style="list-style-type: none"><li>1. Power-up the device using USB cable or 24V DC supply.</li><li>2. Connect the Ethernet cable with the device.</li></ol>	<ul style="list-style-type: none"><li>• Display starts with the SENSOPER logo.</li><li>• Device model is displayed.</li><li>• RTC status is displayed.</li><li>• Memory card status is displayed.</li><li>• The Ethernet connectivity status is displayed.</li><li>• Final screen with Input, Output and Push Button status appears.</li><li>• The output side LED indicators glow in a pattern.</li></ul>

<p>Transistor Outputs</p>	<p>1. To check the working of the transistors, <b>a voltage test</b> is done using a multimeter. To do this, keep the positive probe of the multimeter on the +24V pin of the device.</p> <p>Next touch the negative probe with the transistor pins after, one by one after a 15s gap.</p>	<ul style="list-style-type: none"> <li>• The multimeter shows a 24V DC reading, whenever the transistor is on (Transistor status is displayed on the display).</li> </ul>
<p>Digital Inputs</p>	<p>1. Power-up the device using 24V DC supply.</p> <p>2. Connect the <b>GND &amp; COM</b> pins and supply the 24V DC to every digital input one by one.</p>	<ul style="list-style-type: none"> <li>• Refer to the expected outputs of the Display Check above.</li> </ul> <p>In the input status, status of all the 8 digital inputs will be 1. (As the inputs are internally pulled up)</p> <ul style="list-style-type: none"> <li>• The input status changes from 1 to 0, and the input side LED indicator glows accordingly.</li> </ul>

Push Buttons	Press the 3 push buttons, one at a time.	<ul style="list-style-type: none"><li>• The 4 digit analog status of the push button is displayed accordingly on the display.</li></ul> <p>***</p> <p>Analog status 1_ _ _ for the upper button</p> <p>Analog status 2_ _ _ for the middle button</p> <p>Analog status 3_ _ _ for the lower button</p>
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