
US082-SSC3240EVZ

Strain Gauge Demo

Introduction

This document explains the assembly of the US082-SSC3240EVZ Strain Gauge Demo.

Contents

1. Bill of Materials	2
2. Printing the Base and Platform	2
3. Assembling the Scale.....	3
4. Ordering Information.....	4
5. Revision History	4
6. References	4
7. Website and Support.....	4

1. Bill of Materials

Qty	Description	Manufacturer	Manufacturer Part Number
1	24-bit Sensor Signal Conditioner Pmod	Renesas Electronics	US082-SSC3240EVZ
1	1kg Strain Gauge Load Cell	Wishiot	B0C3QHT4TT
2	M5 x 12mm Cross Head Screw	NGe	B08F7LK66D
2	M4 x 12mm Cross Head Screw	KUNHEHO	B0C7PY3ZHM

2. Printing the Base and Platform

This section discusses printing the platform and base for the strain gauge demo using the two STL files provided on the product page.

1. Download the two STL files located on the [US082-SSC3240EVZ](#) product page and Strain Gauge Demo Platform.
2. On an available 3D printer, in print settings ensure supports are enabled and everything else is set to standard.
3. After printing, remove supports as indicated by the red boxes in Figure 1.



Figure 1. Removing the Base and Platform Support

3. Assembling the Scale

This section explains the assembly of the scale used in the Strain Gauge Demo.

1. Attach the load cell to the printed base using two M5 screws.

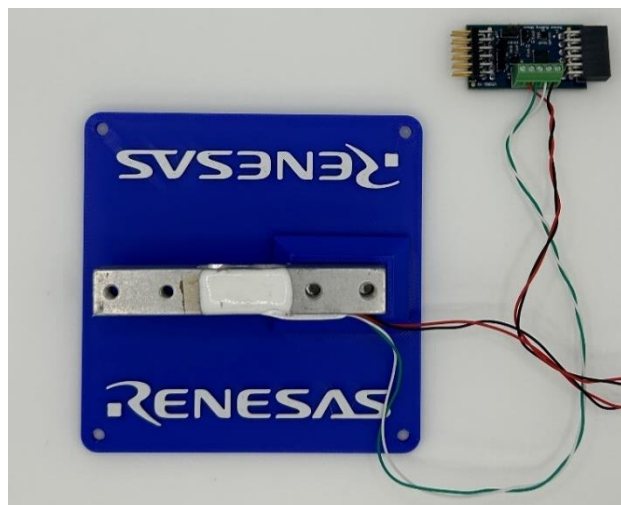


Figure 2. Load Cell Base

2. Attach the platform to the load cell using two M4 screws.



Figure 3. Load Cell Platform Assembly

4. Ordering Information

Part Number	Description
US082-SSC3240EVZ	Sensor Signal Conditioner

5. Revision History

Revision	Date	Description
1.00	Aug 14, 2025	Initial release.

6. References

- [ZSSC3240](#) product page

7. Website and Support

Visit the following URLs to learn about key elements of the RA family, download components and related documentation, and get support:

- RA Product Information www.renesas.com/ra
- RA Product Support Forum <https://community.renesas.com/mcu-mpu/ra/>
- RA Flexible Software Package www.renesas.com/FSP
- Renesas Support www.renesas.com/support

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