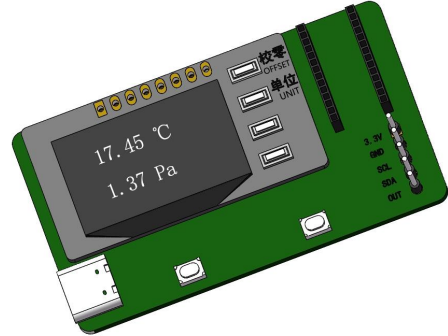# PSEB002 EVALUTION BOARD(Calibrated Pressure Sensor)

FEATURES

- ■ Built-in Program(STM32)
- ■ Supports Repeat Burn-in
- ■ Reading Display Directly.
- ■ Jumper Wire Connection
- ■ Small Size and Volume
- ■ Easy to Use

APPLICATIONS

- ■ Sensor demonstration
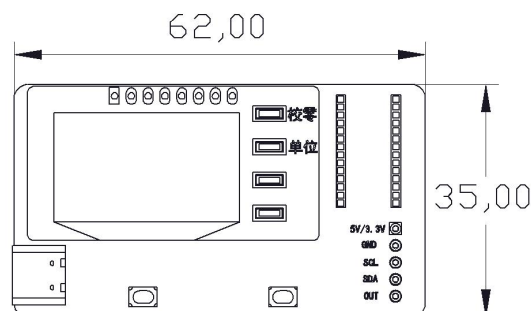- ■ Sensor testing and evaluation
- ■ Proof-of-concept testing

INTRODUCTION

The pressure sensor evaluation board PSEB002 provides an simple way to demonstrate and evaluate most calibrated CFSensors pressure sensor products.
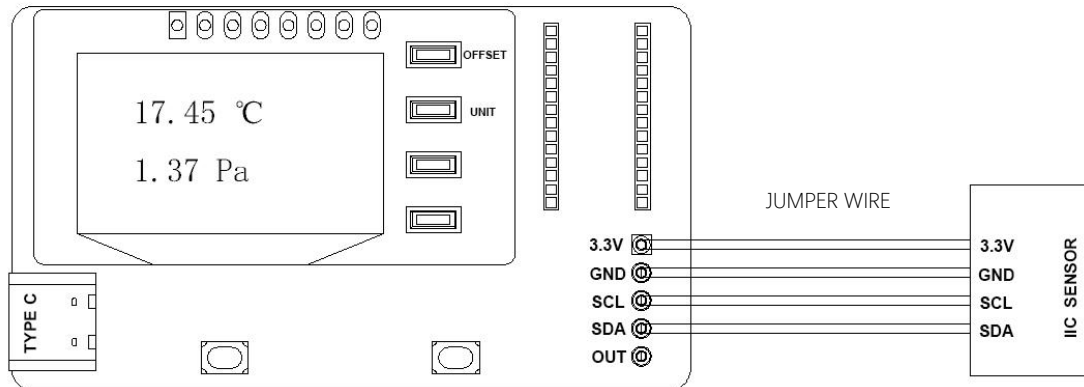
The pressure sensors can be remotely connected to the PSEB002 via jumper wire, allowing the sensor to be tested in adverse environments, or in a prototype product for proof of concept testing(Part of sensors can be mounted on the evaluation board by adapter socket, like for XGZP6859D,XGZP6897D).

The pressure sensor evaluation board PSEB002 have built-in program according to different pressure sensor type, so it allows the user to obtain sensor readings without needing to develop any code and directly display value on the screen.It also support to test different sensor via change the code easily. Contact CFSensor for further information.
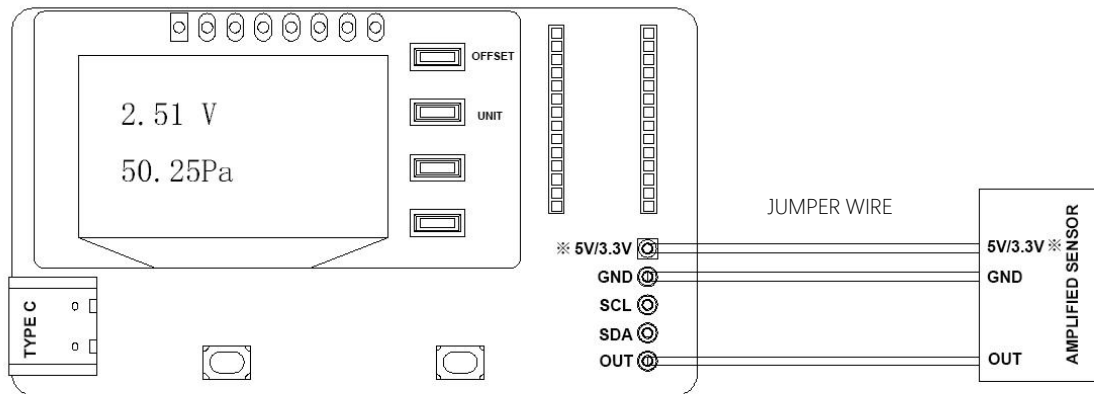
MIAN BOARD DIMENSION (Unit:mm Unspecified Tolerances:±1.0mm)

JUMPER WIRE CONNECTION

I2C Interface Pressure Sensor Connection
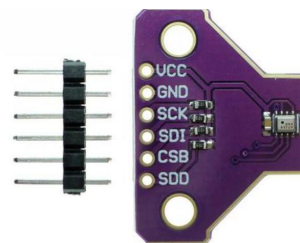

※ THE 5V AND 3.3V VOLTAGE CAN BE MODULATED AT BACK SITE BY SOLDERING THE CONNECTION

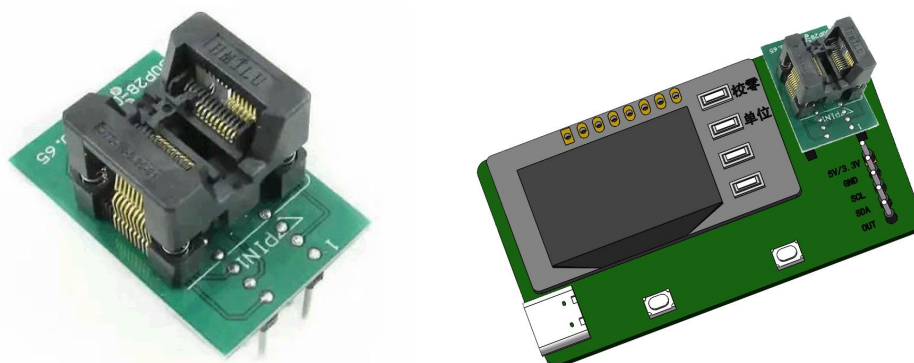Amplified Pressure Sensor Connection

Jumper Wire(Including)   Adapter board with Sensor (Excluding)

Note:

1, Adapter board products: XGZP6812D/6818A/6818D/6826A/6826D/6830D.

2 The Demo Board including the Jumper Wire, excluding the Sensor and Adapter board. Please contact CFSensor if the Adapter board is required.

ORDER GUIDE EXAMPLE

PSEB002	Piezo-resistive Pressure Sensor	
	Code	Definition
	XGZP6899A010KPG	Demo for XGZP6899A, 0 ~ 10KPa, 0.2 ~ 4.7V@5V
	XGZP6897D005HPGPN	Demo for XGZP6897D, -500 ~ 500Pa, I2C interface
	XGZP6816D	Demo for XGZP6816D, 30-110KPa, I2C interface
	And so forth	Demo for CFSensor P/N xxx
PSEB002-XGZP6897D005HPGPN		the whole spec.

Note: XGZP6859D and XGZP6897D can be also mounted on the evaluation board by adapter socket as above, please contact CFSensor if this solution is required.

【 SAFETY NOTES 】

● Do not use these sensors under any circumstances in which the range of their ratings, environment conditions or other specifications are exceeded. Using the sensors in any way which causes their specifications to be exceeded may generate

abnormally high levels of heat, emit smoke, etc., resulting in damage to the circuitry and possibly causing an accident.

● Before connecting a connector, check the pin layout by referring to the connector wiring diagram, specifications diagram, etc., and make sure that the connector is connected properly. Take note that mistakes made in connection may cause unforeseen problems in operation, generate abnormally high levels of heat, emit smoke, etc., resulting in damage to the circuitry.

● Do not use any pressure sensor which has been disassembled or remodeled.

● Protection circuit recommended.

The possible failure mode is either open or short of the output transistor.

An ecess heat is the cause for short mode failure. For any important and serious

application in terms of safety, add protection circuit or any other protection method.

• Various safety equipment and safety equipment

• Traffic light

• Security crime prevention equipment

• Equipment concerning control and safety of trains, cars, etc.

• Applications such as temperature control using sensor output etc.

● If it is expected that malfunction of each sensor may cause injury to persons or

serious expansion damage, be sure to implement safety measures such as double safety circuit.

【 WARRANTY 】

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. CFSensor reserves the right to make changes without further notice to any product herein. CFSensor makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does CFSensor assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. CFSensor does not convey any license under its patent rights nor the rights of others.

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