GXP9541 pressure sensor

1 Features

- Miniaturization, MEMS technology
- Pressure range can be customized, differential pressure, gauge pressure .0.2 KPa. 0.5 KPa. 2.5 KPa. 10 KPa
- High-speed 24bit I2C digital output
- High precision pressure monitoring
- Durable SOIC package with dual vertical air nozzle for easy installation

2 Applications

- Medical monitoring: ventilator, CPAP and other respiratory systems, medical beds
- Industrial control: fire residual pressure monitoring, HVAC/VAV, pressure transmitters

3 Description

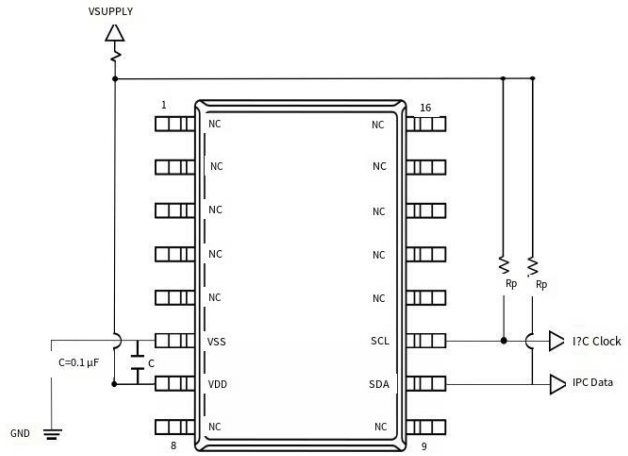
GXP9541 pressure sensor is an ultra-small integrated micro-differential pressure high precision semiconductor pressure sensor, suitable for medical, industrial control, white goods and other fields. It adopts JEDC standard SOIC-16 package form, vertical double gas nozzles with barbs, which is convenient for subsequent installation and use.

This pressure sensor has an I2C interface, and uses the algorithm to realize multi-stage temperature compensation of the sensor. It has been calibrated, and the range and temperature range can be customized. It meets the RoHS standard, which is convenient for the client to use flexibly.

Chip package information

Product number	Encapsulating information	Chip package area (NOM)
GXP9541	SOIC-16	10.26 mm * 7.52 mm

Typical applications



11 Ordering Information

Purchase code	Devices	Pressure range	Packaging	Number of standard packages	Form of packaging
GXP9541-003-150-SDD-1D2T-D01	GXP9541	-3KPa~+3KPa	SOIC16	50	Feed pipe
GXP9541-010-150-SDD-1D2T-D01	GXP9541	-10KPa~+10KPa	SOIC16	50	Feed pipe
GXP9541-001-150-SDD-1D2T-D01	GXP9541	-1KPa~+1KPa	SOIC16	50	Feed pipe
GXP9541-0005-150-SDD-1D2T-D01	GXP9541	-0.5KPa~+0.5KPa	SOIC16	50	Feed pipe

Update information

Versions	Date	Description	Modify page
V1.0	**2023.11.05**	**Initial Edition**	**All**
V1.1	**2024.10.31**	**1. Add The pressure conversion equation for 10KPa range product； 2. Add purchase code.**	**P4,P9**

NOTE

The above content is the precautions for GXP9541 recommended by GALAXY-CAS. When customers use GXP1KLGA01R with reference to the above, you should evaluate in advance whether the relevant components used are suitable for the target purpose based on your own usage needs and application scenarios, test and verify the correctness of the pressure measurement system function built to avoid losses.