

Featured Products



IPX8 waterproof rated

Compact Waterproof High Accuracy Barometric Pressure Sensor

BM1390GLV

- **Compact waterproof IPX8 rated package**

Delivers superior water resistance in the same small package as conventional products, making it ideal for applications requiring waterproof performance

- **Ceramic package suppresses characteristics fluctuations during measurement due to stress**

Minimizes characteristics fluctuations after mounting on board, contributing to greater flexibility in board layout design

- **Built-in temperature compensation circuit ensures stable measurement accuracy from low to high temperatures**

Eliminates the need for an external MCU for temperature correction calculation, reducing design load

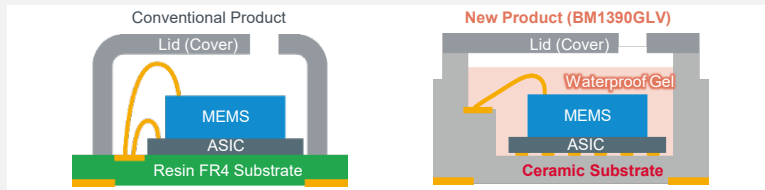
* IPX8: The IP code indicates the level of protection against foreign particles and water. IPX8 represents the highest waterproof rating.



BM1390GLV
RLGA10VG020T
(2.0mm × 2.0 × 1.0mm)

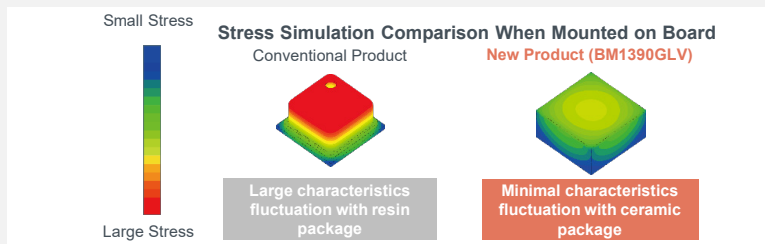
■ IPX8 Rated Waterproof Performance

Utilizes a special gel to protect the IC internals and provide waterproof performance



■ Ceramic Package Suppresses Characteristics Fluctuations

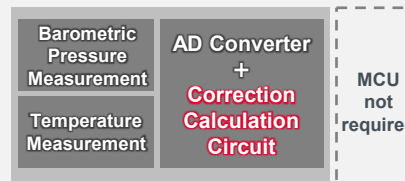
Resistant to stress on the sensor during board mounting



■ Built-in High Accuracy Temperature Compensation Function

New Product (BM1390GLV)

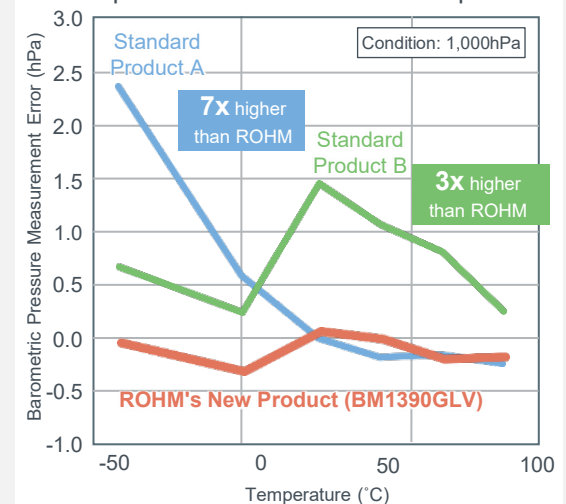
Barometric Pressure Block Diagram



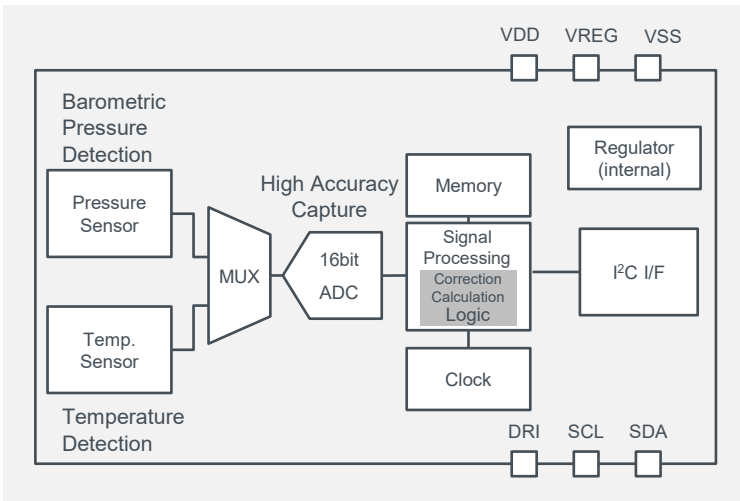
- Eliminating the need for an external MCU for temperature correction calculation reduces design load

- Achieves stable measurement accuracy from low to high temperatures

Temperature Characteristics Comparison




■ Barometric Pressure Sensor IC Block Diagram



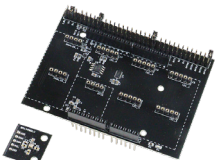
■ Evaluation Kit

Online Distributors: Chip One Stop, Core Staff
 Evaluation Board Part No: BM1390GLV-EVK-001
 Support Page: <https://www.rohm.com/sensor-shield-support/pressure-sensor2>

Evaluation Board Part No
BM1390GLV-EVK-001





Sensor Evaluation Kit
SensorShield-EVK-003



This sensor evaluation kit allows users to easily evaluate the barometric sensor along with 7 other sensors using just an Arduino Uno.


Available for
purchase in single
units


■ Application Examples

New methods of applying barometric pressure and altitude data expand system functionality

- Consumer appliances such as rice cookers and vacuum cleaners that require pressure control
- Industrial equipment demanding waterproof performance
- Compact IoT devices and drones used outdoors



Pressure control optimization by measuring barometric pressure




Altitude measurement and activity analysis



System control for maintenance and anomaly detection of barometric fluctuations

■ Pressure Sensor IC Specifications

Part No.	Supply Voltage (V)	Barometric Pressure Range (hPa)	Relative Pressure Accuracy (hPa)(Typ)	Absolute Pressure Accuracy (hPa)(Typ)	Operating Temperature Range (°C)	Package (mm)
New BM1390GLV 	1.7 to 3.6	300 to 1,300	±0.06	±1	-40 to +85	RLGA10VG020T 2.0×7.75×1.0



ROHM Co., Ltd.

21 Sain Mizosaki-cho, Ukyo-ku,
Kyoto 615-8585 Japan

www.rohm.com

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