

Product

Sensor

Daeyang supplies various types of sensors measuring temperature / pressure / humidity / ultrasonic flow as a module and as a system, which have been developed and manufactured on our own.

We have developed all the core technologies for the sensors such as

MEMS(Micro Electro Mechanical System), SoC design, simulation and reliability test, etc.

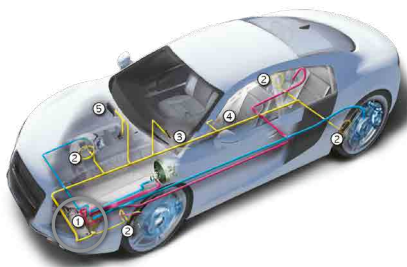
Recently, we developed the pressure sensors for ESC(Electric Stability Control) system for the automobile, and since 2014 we started to supply these sensors to HKMC and SYMC.

TheSEN

Pressure Sensor for Automobile

The pressure sensor modules ESC(Electronic Stability Control) is designed to provide optimal operation to control the brake power of wheels independently under the condition where the steering system does not work.

ESC System



Electronic Stability Control

Component of the Electronic Stability Control

1. ESC-Hydraulic unit with integrated ECU
2. Wheel speed sensors
3. Steering angle sensor
4. Yaw rate sensor with integrated acceleration sensor
5. Engine-management ECU for communication

Application area ▶

ESC, ABS, TCS, TPMS and etc.

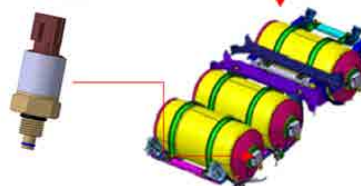
Hydrogen Fuel cell Pressure Sensor

The Pressure sensors for hydrogen fuel cells have been developed for hydrogen cars.(NEXO)

We developed a pressure sensor used in the hydrogen fuel storage system. This pressure sensor shows excellent durability and precision even in extreme environments of high pressure, low temperature and high temperature above 700 bar.



Pressure sensor

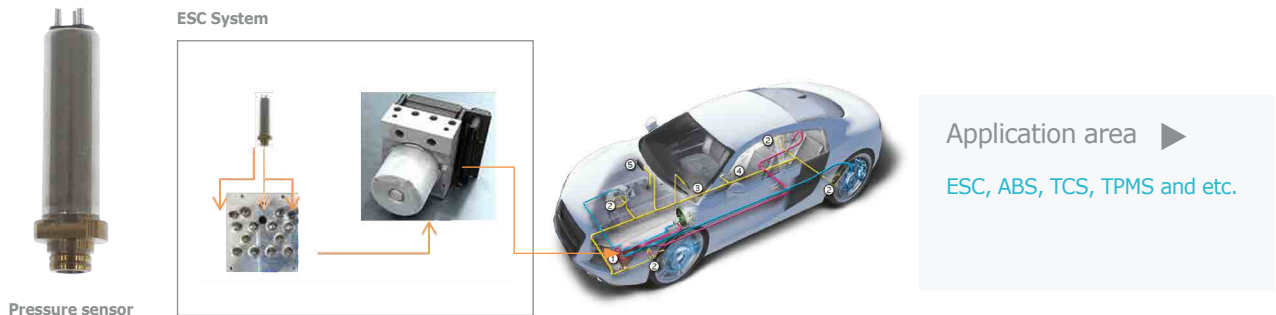


Application area ▶

Hydrogen fuel cell vehicles,
industrial hydrogen fuel systems

Pressure Sensor of ESC System

The pressure sensor modules for ESC(Electronic Stability Control) is designed to provide ego optimal operation to control the brake power of wheels under the condition where the steering system does not work. The ESC system is also designed to have the brake and start-up power of each wheel controlled independently and is used in ABS and TCS as a basic item since it detects and controls steering wheel angle, braking pressure, and vehicle speed.



Metal Thin Film Pressure Sensor

We developed pressure sensor for high temperature and high pressure area by using metal thin films, deposited by the sputtering system. This kind sensor has the excellent performances like linearity, reliability and safety for harsh environments.



MEMS Pressure Sensor

Daeyang's MEMS(Micro Electro Mechanical Systems) pressure sensor has excellent properties just because of using advantages of Si semiconductor with high sensitivity and the metal structure with high safety. Because of these characteristics, the operation range is wide from 1 bar to 1,500 bar and moreover.

