

The AC Pressure Sensor is a key component of the air conditioning system, responsible for controlling pressure and protecting the compressor. It is found in non-integrated climate control systems, both in binary (low/high) and trinary (low/medium/high) versions. In addition to pressure control, it serves as a protective device for the system.

In modern systems, pressure sensors replace the traditional AC Pressure Sensor, communicating with the ECU through analog or digital PWM signals for more efficient air conditioning management.

## References

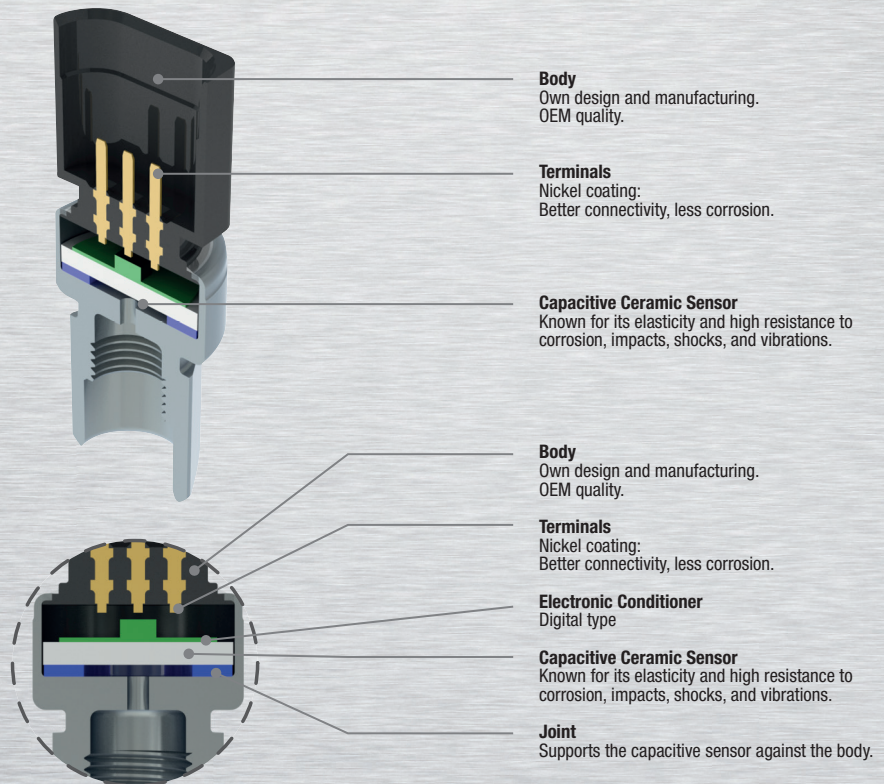
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## Applications

# +15k

VIO

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### Advantages of replacing the AC Pressure Sensor

- **System Protection:** Prevents potential damage caused by excessively high or low pressures, thereby extending the compressor's lifespan.
- **Condensation Process Optimization:** Enhances airflow efficiency through the condenser, contributing to optimal air conditioning system performance.
- **Energy Efficiency:** Allows the air conditioning system to function under ideal conditions, reducing energy consumption and improving overall vehicle efficiency.



### Symptoms of a damaged or faulty sensor

- Reduced cooling capacity of the air conditioning or overall system malfunction.
- Failure to activate the climate control system.
- Frequent engagement and disengagement of the AC compressor clutch, impacting system performance.



### Common causes of AC Pressure Sensor failures

- Poor electrical contact in connections.
- Contamination or accumulated debris within the system.
- Damage to the sensor housing due to vibrations or accidental impacts.