vika®

The spare parts experts of
**Volkswagen BMW Mercedes-Benz**

# FUEL PUMP CONTROLLER



**STO** Superior To OE



The spare parts experts of
**Volkswagen BMW Mercedes-Benz**

## Fault Symptoms:

The main function of the fuel pump control unit is to control operation of the gasoline pump in the low-pressure fuel circuit. It is vulnerable to mechanical pressure in the installation position, which may cause failure or damage of the electronic devices in the unit, and consequently engine flameout.

## Technical Improvements:

# Fuel Pump Controller

**1. The heat dissipation area of aluminum plate is increased, heat dissipation is better than OE products.**



**2. Product performance has been verified through rigorous electrical tests:**

Interference resistance test on power supply side
Interference resistance test on signal side

**3. Product quality is guaranteed through professional durability tests:**

- High-temperature durability test: **85°C 1000h**
- Low-temperature durability test: **-40°C 500h**
- Low-temperature storage test: **-50°C 24h**
- High-temperature and high-humidity test: **85°C RH:85% 48h**
- High- and low-temperature shock test: **-40°C 120°C 200 cycles**
- Salt spray test

| | | OE |
|---|---|---|
| **Technical** Comparison | ▮ Temperature range of MOS devices: -40 ℃~175 ℃; Same as OE;<br>▮ Operational amplifiers, power chips, and pre-drives are integrated in the same CPU. High hardware integration. | ▮ Temperature range of MOS devices: -40 ℃~175 ℃;<br>▮ Operational amplifiers, power chips, and pre-drives are installed in separate parts. Low hardware integration. |
| **Process** Comparison | ▮ The back plate is made of aluminum, and a groove is designed under the aluminum plate to increase the heat dissipation area of the aluminum plate. Good heat dissipation. | ▮ Aluminum radiator only. Limited heat dissipation area. |
| **Performance** Comparison | ▮ Static current＜0.02 mA<br>▮ Working voltage range: 7.2V-20.0V | ▮ No static current function<br>▮ Working voltage range: 4.5V-16.9V |