

CHRYSLER · POWERTRAIN

P1432

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1432 · Chrysler

Fuel Level Sensor 2 Circuit Low Voltage

P1432 on a Chrysler vehicle means the powertrain control module (PCM) has detected a low-voltage condition on the fuel level sensor 2 circuit, which typically monitors the secondary side of a dual-tank fuel system. The PCM expects a voltage signal within a specific range as the fuel level changes, and a sustained low reading indicates a short to ground, an open circuit, or a failed sensor.

SYSTEM

Powertrain

CODE TYPE

Chrysler specific

SEVERITY

Low

FIX DIFFICULTY

Intermediate

AREA

Auxiliary emission controls

Symptoms you may notice

- Fuel gauge reads empty or fluctuates erratically, especially when switching between tanks
- Check Engine Light (CEL) illuminated on the dashboard
- Often no symptoms besides the warning light, with normal driveability
- Incorrect fuel level display leading to premature low-fuel warning
- Possible fuel transfer or tank switching issues on dual-tank models

Common causes, most likely first

- Faulty fuel level sensor 2 (in-tank unit) due to wear or contamination
- Damaged or corroded wiring harness at the sensor connector or along the frame
- Open circuit or high resistance in the sensor ground circuit
- Short to ground in the signal wire between sensor and PCM
- Failed fuel pump module assembly affecting sensor operation
- Corrosion or water intrusion in the electrical connector
- PCM internal fault (rare, but possible after other causes ruled out)

How to diagnose and fix it

- Connect a scan tool and read live data for fuel level sensor 2 voltage to confirm the low reading
- Visually inspect the sensor connector and wiring for corrosion, chafing, or loose pins
- Measure resistance across the sensor terminals and compare to specification while moving the float arm
- Check for continuity and short to ground on the signal and ground wires between sensor and PCM
- If wiring is good, remove the fuel pump module and inspect the sensor for mechanical binding or contamination
- Replace the fuel level sensor or fuel pump module assembly if resistance is out of range
- Clear the code and verify the fuel gauge operates correctly through a full sweep



Dual-Tank Chrysler Fuel Gauge Quirks

- On Chrysler vehicles with dual fuel tanks, sensor 2 often monitors the secondary tank, and a failed sensor can cause the gauge to default to empty even when fuel is present.
- A common misdiagnosis is replacing the fuel pump when the actual fault is a chafed wire near the tank mounting bracket or a corroded ground connection.
- The PCM may set P1432 intermittently if the fuel level sensor signal is lost only during tank switching, so road-testing while monitoring live data is crucial.
- Aftermarket fuel pump assemblies sometimes have incompatible sensor resistance curves, leading to repeated P1432 even after replacement.
- This code does not always indicate a sensor failure; a weak battery or charging system issue can cause low reference voltage and trigger P1432.

Can I keep driving with P1432?

The vehicle remains safe to drive because this fault only affects fuel level reporting, but you should refuel based on mileage rather than the gauge until repaired. Avoid running the tank dry, which can strain the fuel pump and cause additional codes.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter (DMM)
- Fuel tank sending unit wrench
- Wire probe kit
- Service manual with wiring diagrams

Reading P1432

- P** Powertrain: engine, transmission and emissions.
- 1** Manufacturer-specific code (Chrysler): its meaning depends on the make.
- 4** Auxiliary emission controls.
- 32** The exact fault within that area.

Often seen with

P1433 Secondary Air Injection Pump Relay Circuit Open · **P1431** Fuel Level Sensor 2 Performance · **P1433** Fuel Level Sensor 2 Circuit High Voltage · **P1431** Misfire Monitor Disabled Unable to Learn Trigger Wheel Profi · **P1431** Fuel Level Sensor 2 Performance · **P1433** Fuel Level Sensor 2 Circuit High Voltage · **P0460** Fuel Level Sensor Circuit Malfunction · **P0461** Fuel Level Sensor Circuit Range/Performance · **P0462** Fuel Level Sensor Circuit Low Input



See it working

Watch the animated explainer [How Coil-on-Plug Ignition Works: Coil and Spark Plug](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/chrysler-p1432/>

