

Automotive Oxygen Sensors Revision Questions (Edition 1.0)

Please review the Introduction (DOCID 134849) and Technical (DOCID 181851) training notes in the document index and answer the following questions.

Please note: Some questions may have multiple answers.

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What alternative term is frequently used for an automotive oxygen sensor? *

- ☐ Fuel cell
- ☒ Air-fuel analyser
- ☐ Flow-meter probe
- ☐ Thermocouple

In an oxygen sensor, what are the names of the positive and negative components? *

- ☒ Anode (positive) and cathode (negative)
- ☐ Cathode (positive) and anode (negative)
- ☐ Electrode and diode
- ☐ Collector and emitter

According to the Viamed specification, what is the acceptable output in ambient air range for *
an R-22 AVG sensor?

- ☒ 7.0 mV – 11.5 mV
- ☐ 9.0 mV – 13.0 mV
- ☐ 10.5 mV – 13.5 mV
- ☐ 5.0 mV – 9.0 mV

What distinctive colour identifies a Viamed-branded automotive oxygen-sensor body? *

- ☐ Blue
- ☒ Grey
- ☐ Black
- ☐ White/Transparent

Which emissions-tester manufacturer's equipment is designed to operate with sensors *
producing 7.0 mV – 11.5 mV in air?

- ☒ Sun
- ☐ Bosch
- ☐ Snap-on
- ☐ Delphi

What is Viamed's part number that corresponds to the Prosol GOC5223 sensor? *

- ☐ 0110364
- ☒ 0110365
- ☐ 0110358
- ☐ 0110017

Why are new oxygen sensors sealed inside gas-barrier bags shortly after manufacture? *

- ☐ To prevent physical damage during shipping
- ☐ To keep out moisture that corrodes contacts
- ☒ To restrict oxygen, putting the sensor "to sleep" so it retains ~90 % of its lifespan after 12 months
- ☐ To meet EMC regulations

Which Teledyne sensor variants were introduced to provide a higher output of 10.5 mV – 13.5 mV for devices needing at least 9 mV? *

- ☐ AV series (R-17AV / R-22AV)
- ☐ LV series (R-17A-LV)
- ☒ AH series (R-17AH / R-22AH)
- ☐ AVG series (R-17AVG)

The R-21A oxygen sensor terminates with which connector type? *

- ☐ Switchcraft mini-phone jack
- ☒ 3-pin Molex
- ☐ DIN 5-pin
- ☐ USB-C

The training cautions technicians to wear gloves when handling leaking sensors chiefly because: *

- ☐ The sensor contains hot elements
- ☒ Electrolyte can burn skin—initially felt as a soapy sensation
- ☐ The casing contains sharp edges
- ☐ The sensor can give you an electric shock because it holds a residual voltage

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