

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.

Email *

michael.lamb@viamed.co.uk

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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