sciemetric

Automotive Oxygen Sensor Dynamic Production Audit

SCIEMETRIC AUTOMOTIVE COMPONENT SOLUTIONS

Sciemetric's user configurable PSV application test software provides the precision and accuracy demanded in dynamic test situations.

Challenge

Testing a device, such as automotive oxygen sensors, that immediately changes resistance when power is applied is exceptionally difficult. Testing demands precision and advanced waveform analysis techniques to ensure accurate and repeatable results.

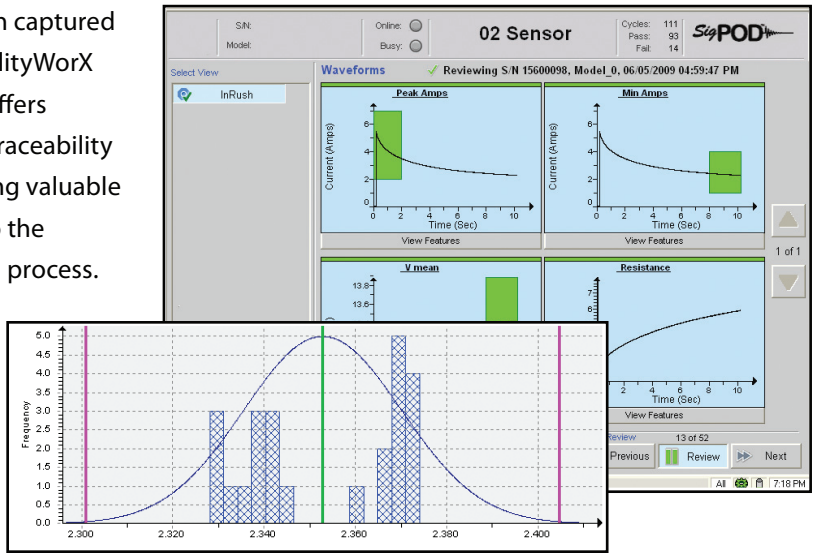
Solution

PSV standard software is easily configurable, setting sampling rates, precise triggers, waveform calculations and signature based feature checks, without the complexity of programming languages. Testing the device captured amps and volts directly to the waveform calculator, with resulting waveforms archived to the QualityWorks database, where simultaneous review is possible.

Achievement

The PSV based SigPOD successfully performed an automated, end of line audit test on a typical, automotive oxygen sensor, resulting in quick, precise and repeatable results.

Information captured by the QualityWorX database offers complete traceability by supplying valuable insight into the production process.



BENEFITS

- Serialized traceability
- Integral SPC for all features
- Local history
  - 5000+ local
  - Unlimited in QualityWorx
- Stand alone capability
- Dynamic advanced feature checks
  - Amps (cold and hot)
  - Volts (applied)
  - Ohms (cold and hot)
- Full waveform analysis
- Waveform calculator
  - Ohms=Volts/Amps
- Discrete Logic I/O
- Ethernet IP capable
- Available FFT analysis

the science of quality

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