

Universal Exhaust Gas Oxygen (UEGO) Sensor Card

Concurrent Real Time's UEGO is a 4-channel Universal Exhaust Gas Oxygen Sensor simulator card with a PCI Express interface that is ideal for high-performance hardware-in-the-loop (HIL) simulation and test applications. It will allow a software simulation to control the operating feedback parameters as if an O2 sensor was connected to an engine control ECU. It can simulate both wide band and narrow band O2 sensors. There is galvanic isolation for each channel pair. In addition, each channel can monitor the O2 heater drive pulse code modulated (PCM) signal for proper feedback of the sensor temperature. O2 sensor signals have open, ground and positive voltage fault insertion capability. O2 sensor signals have open, ground and positive voltage fault insertion capability.



Features:

- ◆ 4-channel O2 Sensor Simulation
- ◆ Wideband or Narrowband Sensors
- ◆ Heater PCM Monitoring
- ◆ Open, Ground and V+ Fault Insertion
- ◆ Galvanic Isolation Per Channel Pair
- ◆ Input Protection +/-50 VDC
- ◆ On-Board Test ASIC
- ◆ Industry Standard SCSI 68-pin
- ◆ Connector for I/O
- ◆ PCI Express x1 Revision 1.0a

Specifications:

Packaging

Full Height, PCI Express 3.8" high, 9.5" long

Power Requirements

Less than 25 watts (3.3VDC @ 1.5 Amp, 12VDC @ 1 Amp)

Environmental

Operating Temperature: 10o to 40o C
Storage Temperature: -40o to 65o C
Relative Humidity: 10 to 80% non-condensing
ROHS Compliant
ROHS Compliant

Ordering Information:

Visit concurrent-rt.com to contact your nearest representative.

- ◇ **CP-UEGO-4**
4-channel Universal Exhaust Gas Oxygen (UEGO) Sensor Simulator PCIe Card
- ◇ **WC-UEGO**
Driver for RedHawk™ Linux®
- ◇ **ICS-SWB-1283**
SIMulation Workbench I/O License

Cabling Options:

- ◇ **CX-CBL-HSI-68-03**
3-foot cable
- ◇ **CX-CBL-HSI-68-06**
6-foot cable
- ◇ **CX-CBL-HSI-68-10**
10-foot cable
- ◇ **CX-CBL-AIO-BRKF**
Breakout Module



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