standard sensors



Optical Oxygen Gas Analyzer

- Measure trace or percent level oxygen continuously in natural gas applications
- No electrochemical cells to replace
- No cross-sensitivity or poisoning from H2S, CO2 or others that plague galvanic cells
- Long life Sensor Module
- Unmatched low Total Cost of Ownership
- Minimal sample conditioning
- ZeroLeak Cell Block ensures no leaks
- Engineered for Class 1 Division 2 locations

Gas Compressor Stations

- **Analyzer Location:** On the compressor discharge line.
- **Purpose:** Early detection of air leaks (e.g., seal failures) that can introduce O_2 into the gas stream, preventing corrosion and safety hazards.

Vapor Recovery Units (VRUs)

- **Analyzer Location**: On the vapor line between the separator and the VRU compressor.
- **Purpose**: Detects any air ingress (O_2) before vapor enters the VRU, ensuring safety and preventing off-spec gas flaring.

Custody Transfer

- **Analyzer Location:** Installed at fence line.
- **Purpose**: Monitors all upstream oxygen ingress and verifies pipeline-spec compliance (e.g., <10 ppm O_2).

Montgomery, Texas
USA

(936) 259-4643

www.standardsensors.com
sales@standardsensors.com

standard sensors

OxyScout™ Typical Specifications

Operating Conditions:

- Process temperature: 0C to 50C
- Ambient temperature: 0C to 50C
- Storage temperature: -20C to 70C
- Pressure: 250 psi maximum (higher ratings available)
- Flow: no restrictions
- Max. rel. humidity: Non-condensing conditions

Mechanical:

- Dimensions: 9" high x 7" wide x 2.5" deep
- Weight: 4 lbs.
- Process connection: 1/8" Tube Compression

Area Classification:

- Designed for Class 1 Division 2 (Zone 2) hazloc
- IP67 for dust and water protection

Electrical:

- Power input: 9-36VDC
- Power draw: 35mA + current used by analog outputs
- 4-20mA Output Loop (current sink)
- RS-485 RTU Modbus (2-wire half-duplex), 0-3.3V (5V tolerant)

Measurement:

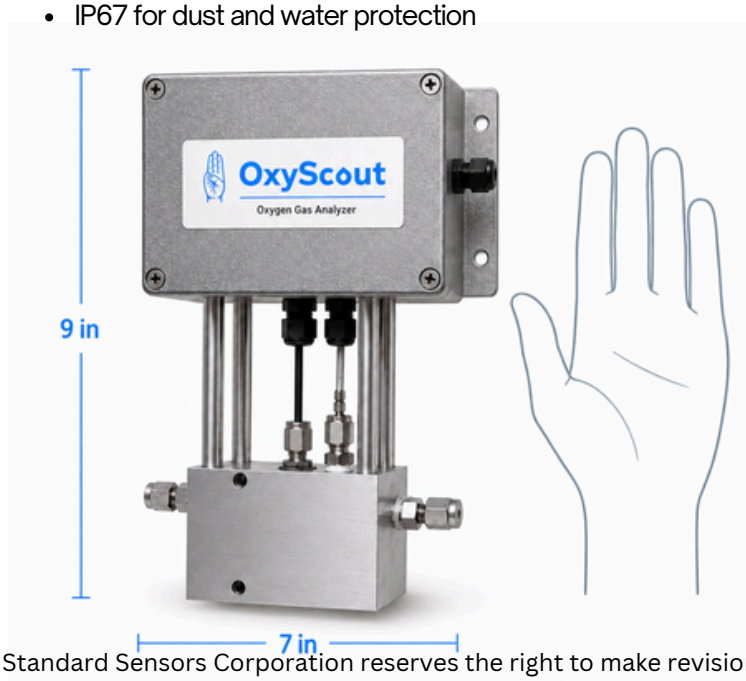
- Fully optical based O2 sensor
  - Stable & long-lasting
  - No electrochemical cells to replace

Range:

- 0 - 50 ppm by vol. (Ultra-Trace), 0-1000 ppm by vol. (Trace)
- 0 - 1 %vol, 0 - 10 %vol, 0 - 21%vol (Percent)

Available Options:

- Flowmeter (to regulate vent flow to atmosphere, if required. Max pressure input 100 psi)
- Sampling System: Pressure regulator/gauge, secondary filter, 3-way valve for calibration gas / process sample
- Extreme Heat Enclosure or Extreme Cold Enclosure (for best stability in direct sunlight or below freezing conditions)





Standard Sensors Corporation reserves the right to make revisions and/or changes without notice and shall not be liable for any errors or omissions made or any damages resulting from the use of the products, information, user manual, or other documentation.
Copyright 2026 Standard Sensors Corporation

Montgomery, Texas
USA

(936) 259-4643

www.standardsensors.com
sales@standardsensors.com