

# **QAS-120/121 SERIES** SINGLE CHANNEL **OXYGEN DEFICIENCY** CONTROLLERS

#### DESCRIPTION

The QAS-120/121 Series is an economical, general purpose, stand alone Oxygen (O2) detection and control unit. Designed for wall mounting, it electronically senses the amount of oxygen in the surrounding air and alarms when the level falls below factory preset values. Relay contacts are provided for remote control and alarm.

#### APPLICATIONS

-Chiller Rooms -Refrigeration Plants

-Freezers -Control Rooms

#### **FEATURES**

-Economical sensing of oxygen deficiency -Extremely long life sensor -Front visible status LEDs -Internal 85dB audible device -Dual audible modes for warning and alarm -Two factory preset alarm setpoints -Multiple relay contact output for remote control -Internal buzzer enable/disable function switch -Easy calibration using internal LEDs -Only clean room air needed for calibration -CSA approval (Pending)

**QAS-121 REMOTE SENSOR** Mount with Oxygen Sensor Element Horizontal

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GAS DETECTION & CONTROLS

120/121 OXYGEN MONITOR

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#### **OPERATION**

The QAS-120/121 series provides two factory calibrated preset levels of oxygen deficiency. When the percentage of available oxygen in the surrounding air drops to the first warning level of 19%, a relay actuates and the audible device operates intermittently (pulse mode). When the oxygen level continues to drop and reaches the second alarm level of 17%, the second relay actuates and the audible device operates continuously (steady on mode). The audible device may be disabled by an internal switch. Front mounted LEDs show when each level is reached.

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The oxygen sensor cell contains a highly accurate, repeatable, electrochemical element with a 10 year life expectancy. The sensor is similar to a small fuel cell behind a diffusion barrier. When gas enters the sensor cell a chemical reaction occurs and an electrical current is produced which is linear within the sensor range. The sensor is internally mounted in the QAS-120. With the QAS-121, the sensor is provided in a separate enclosure which may be remotely located up to 25 feet away.

Both the QAS-120 and the QAS-121 operate from standard 120VAC power and include a front mounted power on LED. The wall mounted enclosure housing is ABS flame proof Plastic with two covered, standard conduit cable entries located at the top and the rear.



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27050-001-000-RA

#### QUATROSENSE ENVIRONMENTAL LTD.

10 years typical

QAS-120 Internal Sensor

QAS-121 Remote Sensor

Electrochemical oxygen cell

PRODUCTION PART NUMBER

-Element

-Life

**SPECIFICATIONS** 

SENSOR

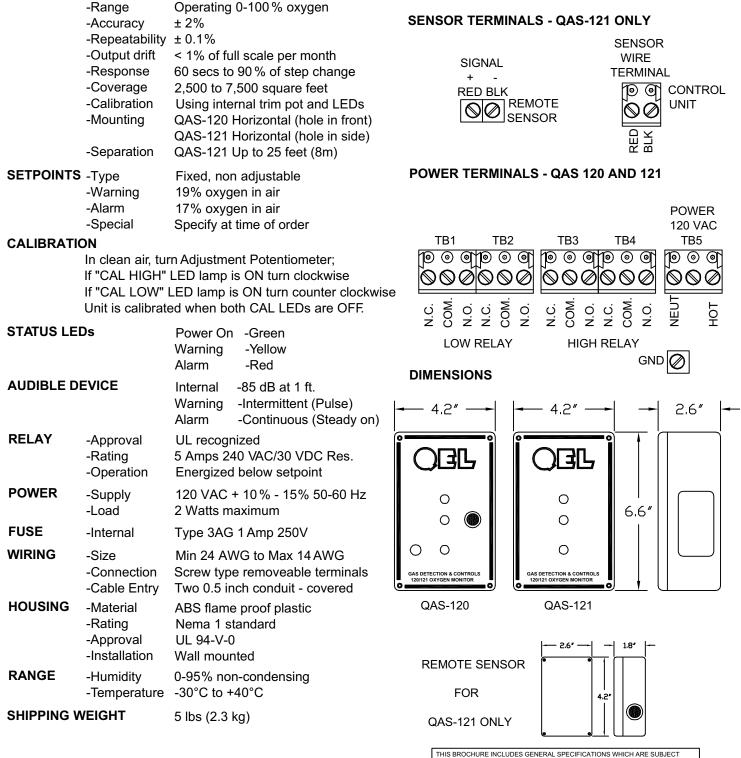
## OXYGEN DEFICIENCY CONTROLLERS QAS-120 and QAS-121 Series

### INTERNAL SWITCH CONTROL CODES

Test mode active (off = normal mode)



Audible device enable (off = disabled)



TO CHANGE WITHOUT NOTICE. ENSURE A COMPLETE UNDERSTANDING OF ALL APPLICABLE FEDERAL, STATE, PROVINCIAL AND LOCAL HEALTH AND SAFETY LAWS AND REGULATIONS, INCLUDING OSHAAND ENSURE COMPLETE COMPLIANCE WITH SAID LAWS AND REGULATIONS BEFORE USING THESE PRODUCTS.READ AND UNDERSTAND FULLYALL INSTRUCTIONS BEFORE USING THESE PRODUCTS.