SCREW COVER

HINGE COVER (LOCKABLE)

Proudly

Made in USA

Kele K-O2

Oxygen Sensor/Transmitter and Two-Stage Alarm Controller

Features

- **Rugged, 18 gauge, steel enclosure**
- **0 - 25% oxygen concentration range**
- **5 or optional 10 year sensor life**
- **Powered 4 – 20 mA current loop output**
- **2 stage low oxygen alarm contacts**
- **Heavy-duty UL 10A, 277 VAC relays**

When the Kele K-O2 detects falling oxygen concentration, the two stage alarm system first activates a warning relay (often used to control ventilation). If oxygen concentration falls further the alarm relay (often used to sound an alert) is also activated before hazardous levels are reached.

Remote monitoring is supported with a powered 4-20 mA current loop analog reporting signal.

Housed in a rugged 18 gauge, powder-coated steel enclosure with optional lockable hinged cover, the K-O2 is tough enough to deploy in public spaces. The UL approved, 10 Amp, 277 VAC-rated control relays allow direct control of moderate power loads in both alarm circuits.

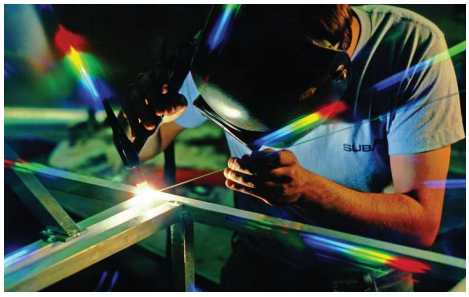
Applications

- Remote monitoring in harsh settings
- Automated low oxygen remediation with fail-safe alarm
- Two stage oxygen dilution alarm
- Tamper-proof installations

Peace of Mind

The K-O2 provides peace of mind in any occupied enclosed space, from the smallest room to an auditorium; anywhere that oxygen displacement might be possible. The K-O2 will activate ventilation and sound alarms as oxygen levels fall.

Performance



The K-O2 can automatically control ventilation to remediate oxygen-dilution in repair, manufacturing and other occupied machinery spaces. If remediation fails, the K-O2 can sound an alert before levels fall below OSHA-required minimums.

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Kele Ordering Table

K-O2	Enclosure

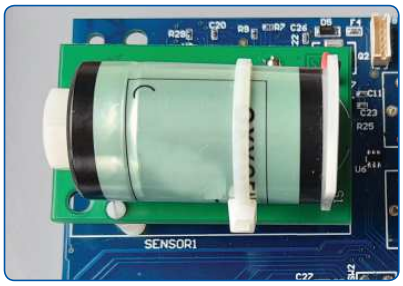
Enclosure (Metal)
H = Hinged
S = Screw

K-O2- ☐ - ☐

5 = Oxygen (O2) 5 years
10 = Oxygen (O2) 10 years

Replacement Sensor
KMOD-O2-25 = Oxygen (O2) 5 years
KMOD-O2-50 = Oxygen (O2) 10 years

CAL KIT
UCK-3 kit = Universal calibration kit for non-corrosive & corrosive gases



Field Replaceable O2 Sensor

Made in America

We are committed to our community and to keep the highest standards of engineering, manufacturing, and assembly in the United States.

Mechanical	
Chassis Construction	Industrial strength, 18 Ga. Gray powder-coated steel. Pad-lockable hinged or screw-on cover style available.
Weight	2.0 lbs
Operating Temperature	-20 to 50°C
Operating Humidity	15 – 90 %RH, non-condensing
Storage Temperature	-20 to 20°C (to minimize sensor degradation)
Case Dimensions (H x W x D)	Lockable hinge cover: 6.4" x 5.9" x 2.4" (163.5 x 150.8 x 60.7 mm) Screw cover: 6.3" x 5.8" x 2.1" (160.0 x 147.3 x 52.0 mm)
Sensor Vents	Natural ventilation through 18, 0.1" (2.54 mm) diameter vents
External Indicators	Tri-color LED indicates operational status of sensor.
Knockouts	4 trade ½" knockouts (1 per side)

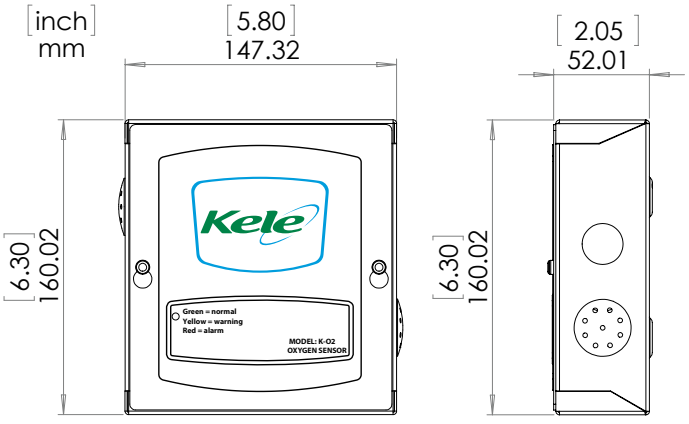
Electrical	
Operating Power Voltage	14 – 30 VAC (RMS) or DC Isolated power supply; separate transformer not required.
Power Consumption	< 5W
Control Relays	2 separate SPDT line-voltage-capable relays for warning/ventilation and alarm outputs. UL-rated: 10 Amps max at 120/277 VAC (RMS) or 30 VDC.
Concentration Reporting Output	Isolated, powered 4 – 20 mA current loop output. 4 mA output => 0 % concentration. 20 mA => 25% Maximum loop resistance: 510Ω
Termination	Pluggable screw-terminals for use with 12 AWG or thinner wire

Oxygen Sensor (O2)	
Sensor Type	Galvanic cell
Measurement Range	0 – 25%
Analog Output Range	4-20mA (corresponds to 0 to 25%)
Accuracy	±0.2% (Typical)
Calibration Interval	6 Months
Sensor Life	5 or 10 Years (Typical)
Recommended calibrated Field-Replaceable Sensor	KMOD-O2-25 (5 years) or KMOD-O2-50 (10 years)
Calibration Kit	UCK-3 kit

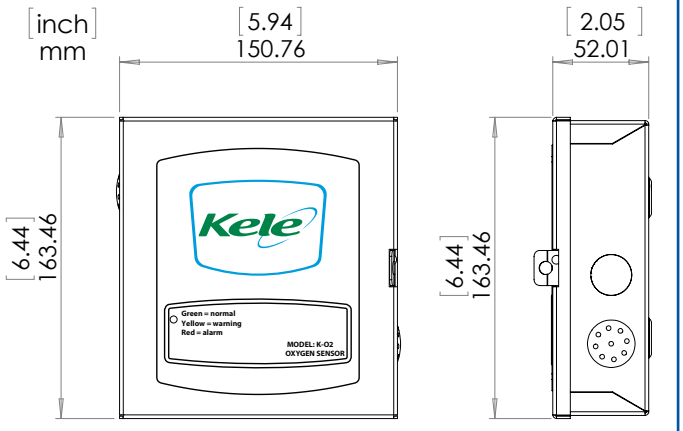
Kele Manual

Kele Installation

Screw Cover



Lockable Hinge Cover



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