



GAS & SPECIALTY SENSORS

CO AND NO2 SENSOR

KCO-NO2 SERIES

DESCRIPTION

The Kele **KCO-NO2** sensor is designed to monitor carbon monoxide and nitrogen dioxide levels in ambient air. It is constructed with a rugged, powder-coated steel enclosure for protection against impact and chemicals. The hinge cover version can be locked. The Kele **KCO-NO2** effectively measures and reduces toxic exposure in parking garages, loading docks, and other vulnerable environments. Its operation range is 0-200 ppm for carbon monoxide and 0-10 ppm for nitrogen dioxide. The CO and NO2 sensors are field replaceable with calibrated modules.



KCO-NO2-S



KCO-NO2-H

FEATURES

- 4-20 mA output
- Steel enclosure (screw or lockable hinge cover)
- 0 ppm - 200 ppm CO range
- 0 ppm - 10 ppm NO2 range
- Two 10 Amp SPDT relays

SPECIFICATIONS

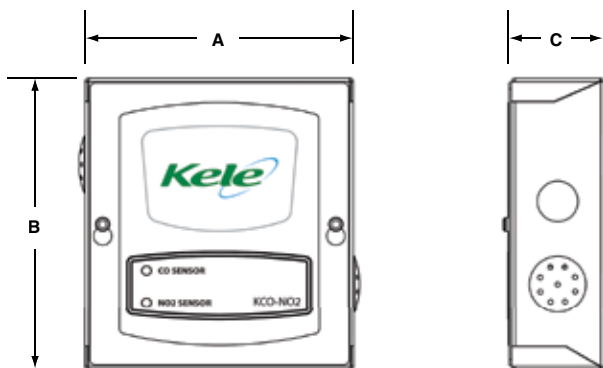
Supply Voltage	13 to 30 VAC (RMS) or 15 to 45 VDC polarity independent, isolated power supply	Relay Settings	4 jumper selectable warning and alarm settings
Accuracy		CO	15 and 30 ppm, 25 and 40 ppm, 30 and 45 ppm, 35 and 45 ppm
CO	±5% of Full Scale (typical)	NO2	.7 and 2 ppm, 1 and 3 ppm, 2 and 4 ppm, 2.5 and 4.5 ppm
NO2	±1.5 ppm (typical)	Calibration Interval	6 Months; factory calibrated when new
Power Consumption	<5W	Life Expectancy	2 Year typical
Signal Output	Two powered 4-20 mA current loop outputs (one for each sensor)	Calibrated Field-Replaceable Sensor	
Output Range		CO	KMOD-CO
CO	4 mA to 20 mA (corresponds to 0 to 200 ppm)	NO2	KMOD-NO2
NO2	4 mA to 20 mA (corresponds to 0 to 10 ppm)	Operating Temperature	-4 to 122°F (-20 to 50°C)
Maximum loop resistance	510Ω	Operating Humidity	15 to 90% RH
Control Relays	Two separate SPDT relays for warning and alarm outputs. 10 Amps max at 120 VAC (RMS) or 30 VDC.	Storage Temperature	32 to 68°F (0 to 20°C) to minimize sensor degradation
Termination	Removable plugs for use with 12 gauge AWG or thinner	Enclosure	Robust 18 Ga. Grey powder-coated steel. Hinged & Pad-lockable, or screw-on cover style available.
Sensor Type	Electrochemical	Knockouts	4 trade ½" knockouts (1 per side)
Measurement Range		Recommended Calibration Cap Diameter	.807" (20.5 mm)
CO	0 - 200 ppm	Sensor Vents	Natural Ventilation through 18 0.1" diameter (2.54 mm) vents
NO2	0 - 10 ppm	Dimensions	5.9"W x 6.4"H x 2.4"D (150.8 x 163.5 x 60.7 cm)
Relay Setpoints		Weight	2.0 lbs (0.9 Kg)
Warning/Alarm	10/25 ppm 25/50 ppm 50/100 ppm	Warranty	1 year sensor, 7 year electronics

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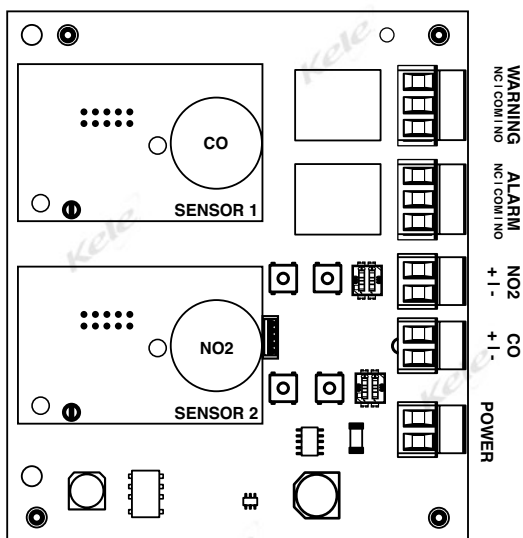


DIMENSIONS



In. (cm)	A	B	C
KCO-NO2-S	5.80" (14.7)	6.30" (16.0)	2.05" (5.2)
KCO-NO2-H	5.94" (15.1)	6.44" (16.4)	2.05" (5.2)

WIRING



STATUS LED COLOR

STATUS LED COLOR	OPERATIONAL STATUS DESCRIPTION
Green	Concentration is below the ventilation threshold. No outputs are active.
Yellow	Concentration is above the ventilation threshold and below the alarm threshold. Ventilation relay is active.
Red	Concentration is above the alarm threshold. Both ventilation and alarm relays are active.
Red (Blinking)	Sensor module in need of service (refer to section 6).

RELAY SETTINGS

Dipswitch Setting	Threshold Set Points (ppm)	
	Warn	Alarm
	15	30
	25	40
	30	45
	35	45

Dipswitch Setting	Threshold Set Points (ppm)	
	Warn	Alarm
	0.7	2.0
	1.0	3.0
	2.0	4.0
	2.5	4.5

ORDERING INFORMATION

MODEL	DESCRIPTION
KCO-NO2-H	GAS SENSOR CO NO2 WITH LOCKABLE HINGED COVER
KCO-NO2-S	GAS SENSOR CO NO2 WITH SCREW COVER
KMOD-CO	REPLACEMENT CO SENSOR FOR KCO-NO2
KMOD-NO2	REPLACEMENT NO2 SENSOR FOR KCO-NO2
UCK-3	CALIBRATION KIT FOR KCO-NO2
GAS-CO-25	25PPM CO CALIBRATION GAS
GAS-NO2-2.5	2.5PPM NO2 CALIBRATION GAS