

# OPERA Inc.

## 60xx Series GAS DETECTOR

## DATA SHEET

*A versatile, self-contained dual gas sensor that is network ready for either peer-to-peer (master slave) operation or central control.*

### APPLICATIONS:

- Vehicle Emissions
- Combustible Gases
- Refrigeration Gas Leak Detection
- Industrial Health and Safety

### FEATURES:

- Stand-alone operation with 1 or 2 adjustable alarm relays, indicators and strobe
- BTL listed Smart Sensor
- BACnet MS/TP RS485 interface
- CAN network interface for master-slave operation or central control
- Pre-calibrated plug-and-play sensor modules
- Impact resistant water resistant enclosure.



# DATA SHEET

## 60xx Series

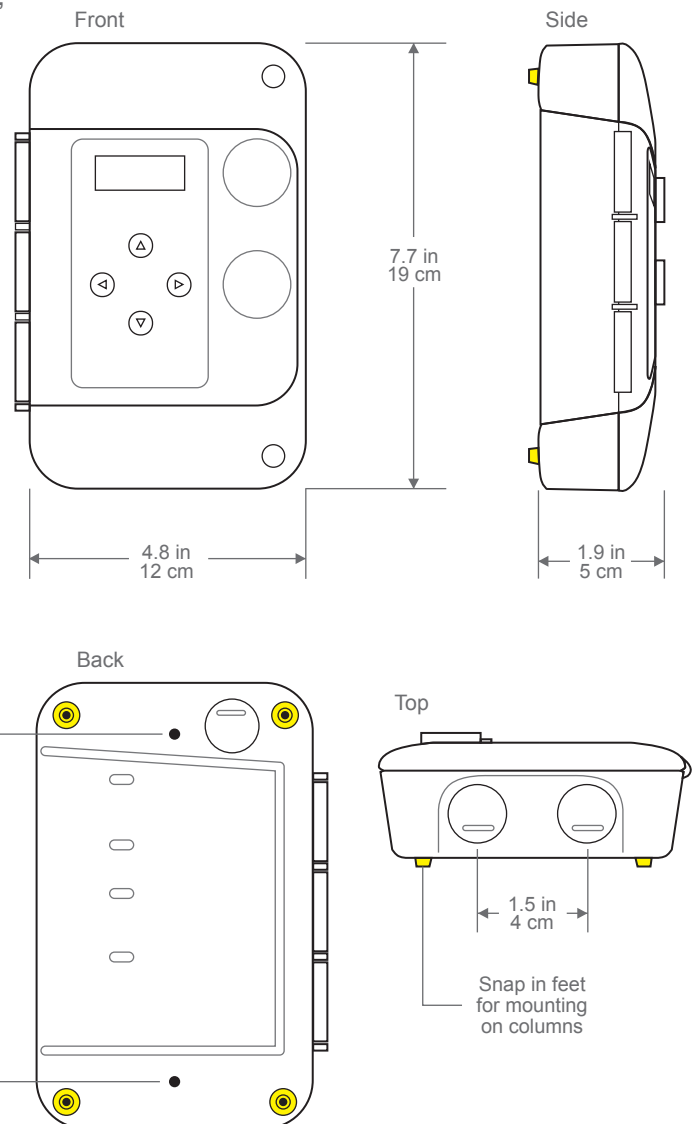
### GAS DETECTOR

#### SPECIFICATIONS:

- Supply 24 vac 50/60 hz (17-28 vac) 0.21 amps, 5 va
- Operating temperature -20 °C to 50 °C (-4 °F to 122 °F)
- Operating humidity 15-90% R4, non condensing
- For indoor use
- Flame resistant Polycarbonate ABS enclosure rated UL94, V0, 5VB, and 5VA
- Relays (1 or 2) SPDT, 5 amp @ 125 vac, non-inductive
  - On delay; 0-999 seconds (16 minutes)
  - Off delay; 0-999 seconds (16 minutes)
- Standards; Conforms to UL61010-1, CSA C22.2 61010-1-12, ANSI/ISA 61010-1, CSA C22.2 no. 205-12
- Analogue outputs 4-20 ma or 2-10v (model 6000-A)
- Dimensions; 7.7 in. (19 cm) high, 4.8 in. (12 cm) wide, 1.9 in. (5 cm) deep.
- Weight ; 420 grams, 0.93 lb
- Enclosure ABS UL-94-V0, UL-94 - 5VA, Nema 4
- Electrical conduit entries; 0.875 inch, two on top, two on bottom one in rear
- Diffusion type sampling

#### USER INTERFACE:

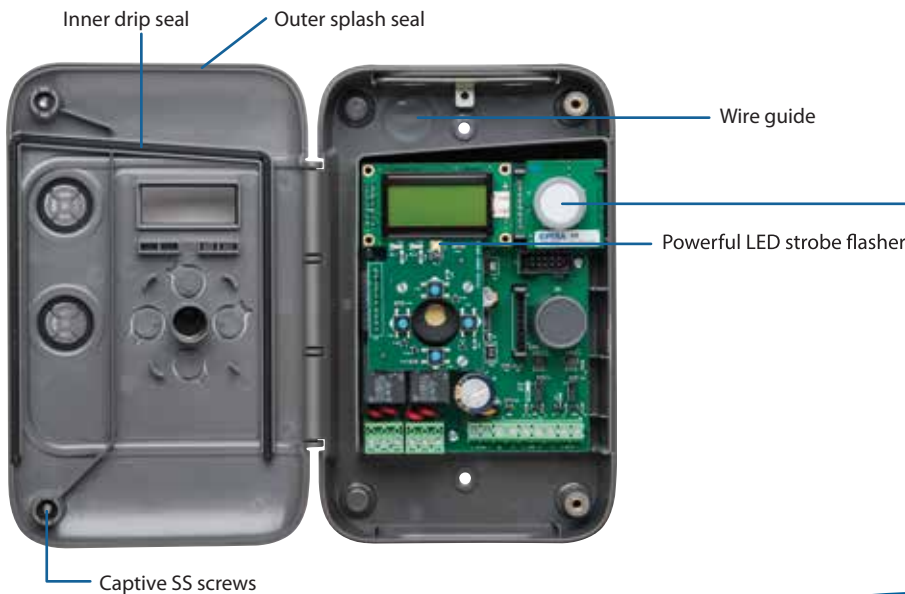
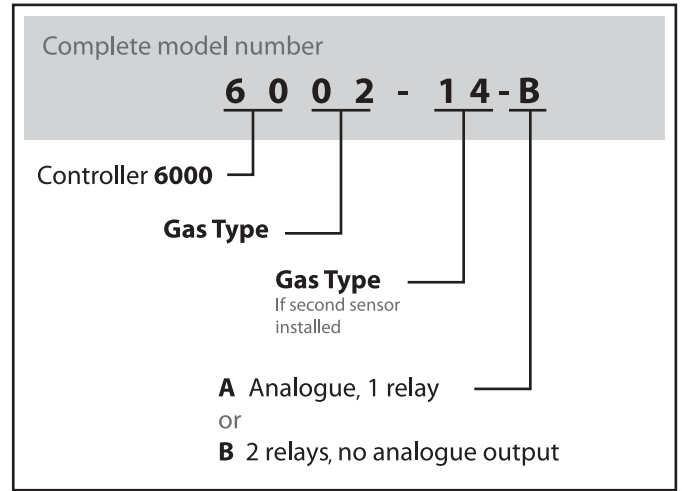
- Back lit LCD display shows gas concentration, user settings, calibration controls
- Red LED alarm indicators, level 1 and 2
- High intensity white LED strobe on level 3
- Audible alarm, 85 db at 1 meter
- 4 pushbutton user keypad
- Password control for settings



## SELECTION GUIDE

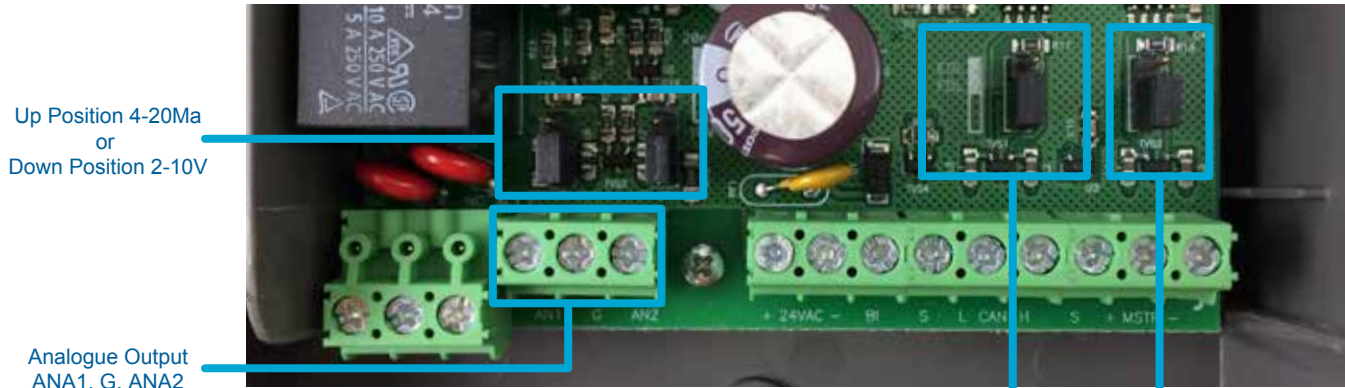
Gas Type	Range
Ammonia	NH <sub>3</sub> 04 0-250 ppm
Argon	Ar 23 0-50% O <sub>2</sub>
Butane	C <sub>4</sub> H <sub>10</sub> 05 0-50% LEL
Carbon Dioxide	CO <sub>2</sub> 15 0-2000 ppm
Carbon Dioxide	CO <sub>2</sub> 15 0-5000 ppm
Carbon Monoxide	CO 02 0-100 ppm
Carbon Monoxide	CO 02-250 0-250 ppm
Carbon Monoxide	CO 02-H2nil 0-250
Chlorine	CL <sub>2</sub> 17 0-10 ppm
Ethylene glycol	C <sub>2</sub> H <sub>4</sub> (OH) <sub>2</sub> 01 0-1000 ppm
Ethanol	C <sub>2</sub> H <sub>5</sub> OH 01 0-1000 ppm
HCFCs	13
HFCs	20
Helium (O <sub>2</sub> depletion)	He 23 0-50% O <sub>2</sub>
Humidity (relative)	H <sub>2</sub> O 25 0-100% RH
Hydrogen	H <sub>2</sub> 08 0-50% LEL
Hydrogen sulfide	H <sub>2</sub> S 16 0-50 ppm
Iso-butane	C <sub>4</sub> H <sub>10</sub> 05 0-50% LEL
Iso-propyl Alcohol	C <sub>3</sub> H <sub>7</sub> OH 01 0-1000 ppm
Methane	CH <sub>4</sub> 05 0-50% LEL
Methanol	CH <sub>3</sub> OH 01 0-1000 ppm
Nitrogen (oxygen depletion)	N <sub>2</sub> 23 0-50% O <sub>2</sub>
Nitrogen dioxide	NO <sub>2</sub> 14 0-10 ppm
Organic Vapors	VOCs 01 0-1000 ppm
Oxygen	O <sub>2</sub> 22 0-50% O <sub>2</sub>
Propane	C <sub>3</sub> H <sub>8</sub> 06 0-50 % LEL

Example:



## CONNECTIONS

### Model 60xx-A



### Model 60xx-B

