



The JCS Industries Model 4500 Gas Leak Detector/Monitor is a low cost, non-contact and easy to install measurement device designed for monitoring trace amounts of compressed gaseous water treatment chemicals such as, but not limited to: chlorine, sulfur dioxide and ammonia in a closed or open environment.

This unit monitors toxic suspended molecules in the atmosphere. In a leaking scenario, the Model 4500 activates an alarm when gas levels exceed the programmed maximum rates.

The monitoring sensors are compact and are designed for unobtrusive wall mounting in any convenient position. Installation, commissioning and maintenance are simplified by the modular design of the electronics.

The model 4500 can monitor up to two different gases simultaneously with each main controller.

- **Electro-chemical sensors**
- **Durable components**
- **IP 66,67 enclosures**
- **Available for Cl<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub> and other gases**
- **Low Maintenance**
- **Provides both local and remote alarms**
- **Typical Ranges:**

**0-10ppm**  
**0-30ppm**  
**0-100ppm**

<b>Range</b>	●	Selectable 0 - 100 PPM
<b>Accuracy</b>	●	+/- 0.5% of span
<b>Power Supply</b>	●	110/220 VAC, 50/60 Hz
<b>Repeatability</b>	●	+/- 0.25%
<b>Enclosure</b>	●	IP 66,67
<b>Operating Temperature</b>	●	-20 degrees F to +125 degrees F
<b>Signal Cable</b>	●	#18-3 wire 2 conductor shielded cables
<b>Display</b>	●	Backlit LCD 16 characters X 2 lines
<b>Alarm Relays</b>	●	Two adjustable set points with 5Amp SPST-independently adjustable relays configured for high and low alarm
<b>Outputs</b>	●	4-20mA, 0-500 ohm RS232C
<b>Dimensions (Controller)</b>	●	6 L x 9.5 W x 7.7 H
<b>Dimensions (Sensor)</b>	●	4 L x 5 W x 5 H
<b>Weight (Controller)</b>	●	7 Lbs.
<b>Weight (Sensor)</b>	●	1 Lbs.

### Characteristics

The Model 4500 system is comprised of a control unit and one or two remote gas sensing heads. Clear indication of gas level is given by a back-lit LCD display which provides a reading from each detector. Monitoring is carried out continuously. Each channel's reading can also be manually selected.

Channel identification is continuous and is provided on the LCD display. In the event of a detector sensing at a concentration higher than the alarm set point, the LCD displays the level and the back-light flashes as well as triggers the prospective alarm. For interfacing the Model 4500 with computers, recorders, telemetry, etc., outputs are provided to give isolated 4-20mA, 0-500ohm signals and RC 232 communications.