

# TOXIC GAS LEAK DETECTORS

## SERIES U

### FEATURES

- LOW COST
- AUDIO/VISUAL ALARMS
- ALARM CONTACT RELAYS
- RAPID RESPONSE
- HIGHLY SPECIFIC
- EXPLOSION PROOF SENSORS
- EASY TO USE/MAINTAIN
- RELIABLE



**SERIES U** gas detectors utilize unique, patented sensors that are unaffected by moisture, temperature change, or poisons. Dedicated units are available for Hydrogen Sulfide, Sulfur Dioxide, Carbon Monoxide, Ammonia, Diesel/Gasoline Vapors, Total Hydrocarbons, Hydrogen, Combustibles (as Methane), Freons, or Ethylene Oxide and Alcohols. **SERIES U** sensors are solid state, diffusion type with no pump or sample lines to maintain.

Electrical classification of remote sensors is explosion proof under Class 1, Division 1, Groups B, C, and D hazardous atmospheric areas. Standard features include meter readout of 0-50 PPM, 0-100 PPM, 0-250 PPM, 0-500 PPM, 0-1000 PPM, 0-5000 PPM, 0-10000 PPM or % LEL (EtO units are available for 0-10 PPM). All **SERIES U** are equipped with adjustable audio/visual alarms and are available in portable, single wall-mounted, and multi-channel configurations.



**CEA Instruments, Inc.**

*"EXPERTS IN TOXIC GAS DETECTION"*

# SERIES U SPECIFICATIONS

## SINGLE WALL MOUNT

<b>Dimensions:</b>	5.0" W x 8.0" H x 4.0" D
<b>Temperature Range:</b>	5° F to 165° F (-15° C to 75° C)
<b>AC Power Input:</b>	115 or 220VAC, 50/60 Hz
<b>Power Consumption:</b>	3.5 watt maximum
<b>Alarms:</b>	Alarm light (red), Fail light (yellow), Audio sound alarm (steady tone)
<b>Alarm point:</b>	Variable setting
<b>Protection Fuse:</b>	0.5A
<b>Panel Controls:</b>	Zero, Span, Alarm setting, Test and Alarm Check Switches
<b>Relay Control:</b>	NO, NC, COM: SPDT 1A at 115VAC
<b>Weight:</b>	5 lbs. (sensor on controller type) or 12 lbs. (remote sensor type)

## MULTI-POINT WALL MOUNT

<b>Dimensions:</b>	4 Channel - 16.0" W x 16.0" H x 7.0" D 8 Channel - 20.0" W x 16.0" H x 7.0" D
<b>Temperature Range:</b>	5° F to 130° F (-15° C to 55° C)
<b>Power Consumption:</b>	3.5 watts maximum per channel
<b>Alarm point:</b>	Variable setting
<b>AC Power Input:</b>	115 or 220 VAC, 50/60 Hz
<b>Alarm Circuit:</b>	Fail, Alarms
<b>Audio Alarm Outputs:</b>	95 dB at 20 cm.
<b>LED Indicators:</b>	Power (green), Fail (orange), Alarms (red)
<b>Panel Controls:</b>	Zero Setpoint, Span Setpoint, Alarm Setpoint, Alarm Check, Reset and Circuit Test Switches
<b>Panel Box:</b>	NEMA type 4 enclosure - Listed for indoor & outdoor, oil & water tight
<b>Relay Control:</b>	NO, NC, COM: SPDT 7A-115VAC
<b>Weight:</b>	4 Channel Controller: 20 lbs. 8 Channel Controller: 40 lbs. Each Remote Sensor: 5 lbs.
<b>FEATURES:</b>	Continuous 24 hour monitoring with explosion-proof sensor housing Malfunction LED and test/checking switches Remote sensors reliable to 1000 feet from controller Optional recorder outputs of 0-1 VDC or 4-20 mA

## PORTABLE

<b>Dimensions:</b>	4.5" W x 7.5" H x 3.0" D
<b>Operating Temperature:</b>	-10° F to 150° F (-20° C to 65° C)
<b>Power:</b>	3.6V Ni-Cad battery
<b>Power Usage:</b>	2.0 Watt maximum
<b>Operating Hours:</b>	12 hours (minimum) continuous
<b>Battery Signal:</b>	Yellow LED indicates low battery
<b>Weight:</b>	2 lbs.
<b>FEATURES:</b>	Audio and visual alarms with built-in battery charger Digital display and Analog display versions available High poison resistance to sulfur, lead, silicon & halogenated compounds Rugged, compact, lightweight (less than 2 lbs.) with leather carrying case

(Specifications subject to change without notice.)



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## SERIES U PRICE LIST

### SINGLE CHANNEL WALL MOUNTED UNITS.....\$ 1,695.00

**\*Add \$100.00 for Freons F-9200 and Sulfur Dioxide S-3200 Versions**

Each unit includes controller with attached sensor, digital display readout, audio/visual alarms, fail alarm, check and test switches, and relay contacts. *Specify range when ordering.*

<b>HYDROGEN SULFIDE</b>	<b>HS-2200</b>	0-50 ppm, 0-100 ppm, 0-500 ppm or 0-1000 ppm
<b>*SULFUR DIOXIDE</b>	<b>S- 3200</b>	0-250 ppm, 0-1000 ppm or 0-10,000 ppm
<b>CARBON MONOXIDE</b>	<b>C- 4200</b>	0-100 ppm, 0-250 ppm, 0-500 ppm, 0-1000 ppm or 0-5000 ppm
<b>AMMONIA</b>	<b>A- 5200</b>	0-100 ppm, 0-250 ppm, 0-500 ppm, 0-1000 ppm or 0-5000 ppm
<b>HYDROCARBONS</b>	<b>HC-6200</b>	0-100 ppm, 0-250 ppm, 0-1000 ppm, 0-5000 ppm, 0-10,000 ppm or 0-100% LEL
<i>(No Methane response)</i>		
<b>EtO &amp; ALCOHOLS</b>	<b>ET-6200</b>	0-10 ppm, 0-50 ppm, 0-100 ppm, 0-500 ppm or 0-1000 ppm
<b>FORMALDEHYDE</b>	<b>FO-6200</b>	0-10 ppm, 0-50 ppm, 0-100 ppm, 0-500 ppm or 0-1000 ppm
<b>HYDROGEN</b>	<b>H- 7200</b>	0-1000 ppm, 0-5000 ppm, 0-20,000 (50% LEL) or 0-100% LEL
<b>COMBUSTIBLES</b>	<b>M- 8200</b>	0-1000 ppm, 0-50% LEL or 0-100% LEL
<i>(As Methane)</i>		
<b>*FREONS (Specify)</b>	<b>F- 9200</b>	0-100 ppm, 0-250 ppm, 0-500 ppm, 0-1000 ppm or 0-10,000 ppm

Optional Recorder Output (4-20 mA or 0-1 VDC) **ADD \$ 200.00**

Optional Dual Alarms (High and Low) with Three Relay Contacts (Low, High, Fail) **ADD \$ 125.00**

### ABOVE SINGLE CHANNEL WALL MOUNTED UNITS WITH REMOTE SENSOR.....ADD \$ 300.00

Same as above with remote sensor mounted in explosion-proof housing and 50 feet of cable.

Add "R" to model number (example: A-5200R). *Extra cable - ADD \$1.00 per foot.*

### PORTABLE UNITS.....\$ 2,395.00

**\*Add \$100.00 for Freons F-9200 and Sulfur Dioxide S-3200 Versions**

Each unit comes in carrying case with sensor wand on 6' cable, rechargeable batteries, built-in battery charger, charge cable, and hard carrying case for unit and accessories.

Controller has digital display, audio/visual alarms, low battery and charger indicators.

*Specify gas and range from above and add "PD" to the end of the model number (example: A-5200PD).*

### MULTIPOINT DETECTORS

Separate multipoint controllers are available for up to 4, 8, or 10 channels in a single NEMA 4 enclosure.

Each channel includes a remote sensor mounted in an explosion-proof housing with 50 feet of cable and connects to individual analog meter readout at controller. Controller has audio/visual alarms, fail alarms, test switches, and relay contacts. Sensors and ranges listed above may be mixed in a single enclosure.

Use numbering system as above, but use *number of channels as 4th digit* (example: **two (2)** channel ammonia system, A-5202).

<b>TWO CHANNEL</b>	<b>\$ 4,300.00</b>	<b>SEVEN CHANNEL</b>	<b>\$ 10,100.00</b>
<b>THREE CHANNEL</b>	<b>\$ 5,400.00</b>	<b>EIGHT CHANNEL</b>	<b>\$ 11,200.00</b>
<b>FOUR CHANNEL</b>	<b>\$ 6,500.00</b>	<b>NINE CHANNEL</b>	<b>\$ 12,600.00</b>
<b>FIVE CHANNEL</b>	<b>\$ 7,900.00</b>	<b>TEN CHANNEL</b>	<b>\$ 13,700.00</b>
<b>SIX CHANNEL</b>	<b>\$ 9,000.00</b>		

**\*Add \$100.00 for Freons F-9200 and Sulfur Dioxide S-3200 Versions**

Optional Recorder Output (4-20 mA or 0-1VDC) per channel **ADD \$ 200.00**

Optional Dual Alarms (High & Low) and Three Relay Contacts (Low, High, Fail) per channel **ADD \$ 125.00**

### SPARES

Replacement Freon or Sulfur Dioxide Sensor (Specify target gas & full range) **\$ 500.00**

Other Replacement Sensors (Specify target gas & full range) **\$ 400.00**

Calibration / Flow Adapter Cap **\$ 50.00**