

## WARRANTY

Your **EX 1000** is warranted to be free from defects in materials and workmanship for a period of one year after purchase. If within the warranty period your instrument should become inoperative from such defects, the unit will be repaired or replaced at our option. This warranty covers normal use and does not cover damage which occurs in shipment or failure which results from alteration, tampering, accident, misuse, abuse, neglect, or improper maintenance. Proof of purchase may be required before warranty is rendered. Units out of warranty will be repaired for a service charge. The unit must be returned postpaid and insured.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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## EX 1000

### Instruction Manual

For use with  
Combustible Gases  
Read and understand  
instructions before use



For more information contact:  
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## CAUTION

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The EX 1000 is factory calibrated for methane-in-air. The alarm will be triggered when the gas concentration approaches the Alarm Set Point. The Alarm Set Point is adjustable from 1% to 40% of the lower explosive range of methane. The alarm response to any other gas will be different. Consult manufacturer when using for other gases.

**NOTICE: CHARGE INSTRUMENT FOR 12 HOURS PRIOR TO FIRST USE.**

## PRODUCT SPECIFICATIONS

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<b>Size:</b>	4.3" x 2.75" x 1.2" (110 x 63 x 33 mm)
<b>Weight:</b>	6 oz. (170g)
<b>Battery Power:</b>	Rechargeable "no memory" cells
<b>Duty Cycle:</b>	8 hrs. continuous use
<b>Sensor:</b>	Low Power Solid State
<b>Calibration Range:</b>	500-20,000 ppm methane
<b>Response Time:</b>	Instantaneous
<b>Temp/Humidity:</b>	10-100°F / 10-95% R.H.
<b>Accuracy:</b>	±5%

## ACCESSORIES

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### STANDARD ACCESSORIES

Carrying Pouch  
Recharge Adapter

### OPTIONAL ACCESSORIES

Calibration Kit  
Calibration Regulator  
.5% Calibration Gas  
2.0% Calibration Gas  
2.5% Quick Check Gas

### CALIBRATION CHECK

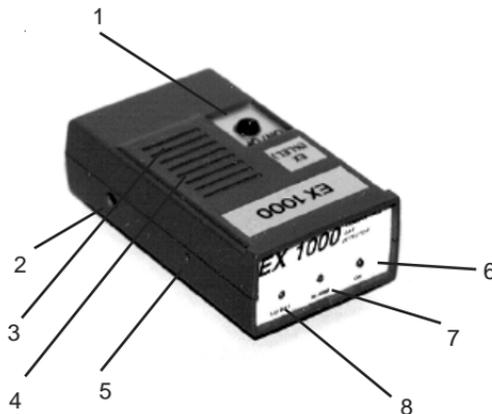
1. To verify the operation of this unit it is necessary, using the proper regulator and calibration adapter, to expose the sensor to 0.5% methane in air. An alarm should occur within 10 seconds.

### CALIBRATION ADJUSTMENT

2. a) Allow unit to operate in a non-contaminated environment for 5 minutes.  
  
b) Using the proper regulator and calibration adapter expose the sensor to the desired gas mixture.  
  
c) After 15 seconds adjust the calibration potentiometer with a small slotted screw driver (access potentiometer through calibration port) and adjust the alarm so it just comes on while applying the gas.  
  
d) Remove the gas and reapply to confirm alarm operation.

NOTE: If this unit fails to calibrate, it should be returned to the factory for repair.

### EX 1000



1. On/Off Switch
2. Recharge Port
3. Sensor (Solid State)
4. Alarm Speaker
5. Calibration Port
6. Power Indicator
7. Alarm Indicator
8. Low Battery Indicator

## **GENERAL DESCRIPTION**

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The EX 1000 is an advanced state-of-the-art personal combustible gas monitor capable of detecting many combustible, noncombustible and toxic gases.

The solid state sensor is sensitive to most combustible gases.

A partial list of these gases includes:

Acetone	Alcohol
Ammonia	Steam
Gasoline	Butane
Industrial Solvents	Jet Fuel
Lacquer Thinner	Smoke
Propane	Methane
Natural Gas	Naphtha

This product is designed to meet intrinsic safety approvals for Class 1, Div. 1, Group C & D hazardous locations.

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## **BATTERY CHARGING**

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1. Battery charging should be performed in a non-contaminated environment only.
2. Plug charging adapter into the charging port of instrument.
3. Plug charger into a convenient 110V AC outlet.
4. Recharge requires approximately 4 hours.

## **OPERATION**

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**NOTICE: CHARGE INSTRUMENT FOR 12 HOURS PRIOR TO FIRST USE.**

1. Turn the instrument on by depressing and releasing the ON/OFF button on the front of the unit. This should be done in a non-contaminated area. A warm-up process will begin.
2. During warm-up it is normal, but not required, that the alarm will sound and the red "ALARM" LED will flash for up to 30 seconds. A flashing green "ON" LED with no alarms indicates the unit is ready for use.
3. If the alarm sounds and the red "ALARM" indicator illuminates the instrument has sensed a gas at a level at or above the calibrated alarm setting (10% LEL when factory calibrated). This also indicates a potentially hazardous atmosphere.
4. If no indicators or the low battery indicator illuminate the instrument needs to be recharged.
5. To conserve battery life turn unit off when not in use.